ERCB

Catalogue

Publications, Maps and Services

1988

ENERGY RESOURCES CONSERVATION BOARD
GUIDE SERIES

ISSN 0702-3510

January 1988 Edition

Published by

Energy Resources Conservation Board
640 Fifth Avenue SW
Calgary, Alberta
T2P 3G4

Telephone (403) 297-8311

Telex 03-821717

No charge

CONTENTS

	pg
Introduction	3
PUBLICATIONS	
Acts and Regulations	7
ERCB Serial Publications	9
ERCB Unnumbered Reports	21
Guides	22
ERCB Reports	29
Non-ERCB Reports	42
MAPS	
About ERCB Maps	47
Oil, Gas and Pipeline Maps	48
Table of Formations	49
Coal Maps	50
Electricity Maps	51
Miscellaneous Maps	51
Geological Maps	53
SERVICES	
About ERCB Services	55
Information Services	56
Core Research Centre Services	69
COMPUTER SERVICES	
About ERCB Computer Services	71
Computer Files	74
INDICES	
Index of Publications by Resource	77
Company Index	83
Subject Index	85

INTRODUCTION

ERCB Information Function

One of the functions of the Energy Resources Conservation Board is the recording and dissemination of energy and energy resource information. Information is made available via publications, maps, computer files, Core Research Centre, and Information Services. The catalogue includes an index of publications by resource, a company index, and a subject index.

Confidentiality

Some information is held confidential for up to one year (and in a few cases up to five years), before release for publication or examination. This applies mainly to data from operating mines, wells, and plants. Only non-confidential information is published in the Catalogue.

Effective Date of Prices

1 January 1988; subject to change.

Government of Canada Sales Tax

Included in all map prices and some publication prices, whenever applicable.

Publications

In the Catalogue, publications are arranged by type of publication. The categories are described as follows:

a) Serial Publications: include daily, weekly, monthly, quarterly, yearly statistical publications. Are issued regularly as serials.

ERCB + 2-letter code + year + number (ERCB ST 88-15)

Note: ERCB ST 88-15 is a later edition of ERCB ST 87-15; the same material is updated.

A few numbered documents are found in this category which are not primarily statistical, but they have appeared or do appear on a regular basis.

b) Unnumbered Reports: includes a few Board reports that were not designated a number or letter.

c) Guides: includes guides, manuals, handbooks. These publications are denoted by a Guide number (Guide G-1).

d) ERCB Reports: include inquiry, decision, technical reports. Are issued only once as unique document. All of the following represent ERCB reports:

1. OGCB + yr + number (OGCB 63-7)
2. OGCB + yr + letter (OGCB 69-D)
3. ERCB + yr + letter (ERCB 81-E)
4. ERCB + D + yr + letter (ERCB D 83-H)
5. ERCB + D + yr + number (ERCB D 84-1)

e) Non-ERCB Reports: The Board also makes available some publications which have been published by other organizations. These are directly related to matters of Board concern or have been contributed to by the Board.

INTRODUCTION

Format

The paper version of a publication will be available for two (2) calendar years following publication. After that, copies will be available on microfiche (diazo), 105 mm x 148 mm at $10. Each diazo contains 60 pages of printed material. The reduction ratio of filming is 24X, which means that readers or reader/printers with lenses from 17X to 27X can be used.

To access a complete set of Board documents, contact or visit:

ERCB Library
640 5 Avenue SW
Calgary, Alberta
Telephone 297-8242

Reprints

If there is sufficient demand, the Board will reprint reports in the paper version, but prices will be increased to reflect current costs.

How to Order Publications and Non-Subscription Maps

Include the following:

(a) your company name, address, and telephone number
(b) your personal name as authorization
(c) cheque, money order, or current ERCB account number
(d) publication name, year, number
(e) number of copies
(f) price (include postage and handling charge)
(g) if to be mailed or picked up

Calgary customers: please pick up orders from the Maps and Publications desk. Please allow two days for diazo orders.

Postage and Handling

All orders mailed or shipped are charged for postage and handling. All orders are sent airmail.

Canada and U.S.A.: add 20% to cost of order.
Overseas: add 30% to cost of order.

Order From

Maps and Publications
Energy Resources Conservation Board
640 5 Avenue SW
Calgary, Alberta
T2P 3G4
Telephone 297-8328

Subscriptions

Some serial publications, maps, microfiche files, and computer files are available on subscription.

New subscriptions begin on the first day of the month following the month in which the order is placed. Subscriptions are prorated according to the number of months the customer receives the subscription prior to 31 December. Subscriptions are automatically renewed at the relevant price commencing on 1 January of each year.

How to Order Subscriptions

Enclose cheque or money order in Canadian funds, payable to the Energy Resources Conservation Board.

Purchase orders, with your current ERCB account number, are also accepted.

INTRODUCTION

Postage and Handling

All orders mailed or shipped are charged for postage and handling. All orders are sent airmail.

Canada and U.S.A.: add 20% to cost of order.
Overseas: add 30% to cost of order.

Order From

Financial Accounting Department
Energy Resources Conservation Board
640 5 Avenue SW
Calgary, Alberta
T2P 3G4
Telephone 297-8376

or

Maps and Publications
Energy Resources Conservation Board
640 5 Avenue SW
Calgary, Alberta
T2P 3G4
Telephone 297-8328

PUBLICATIONS

ACTS AND REGULATIONS

Office Consolidations	ENERGY RESOURCES CONSERVATION ACT AND REGULATIONS	$ 10
	COAL CONSERVATION ACT AND COAL CONSERVATION REGULATIONS	$ 10
	GAS RESOURCES PRESERVATION ACT	$ 10
	HYDRO AND ELECTRIC ENERGY ACT AND REGULATIONS	$ 10
	OIL AND GAS CONSERVATION ACT AND OIL AND GAS CONSERVATION REGULATIONS	$ 10
	OIL SANDS CONSERVATION ACT AND REGULATIONS	$ 10
	PIPELINE ACT, SCHEDULE OF FORMS AND FEES, PIPELINE REGULATIONS	$ 10

Note: Office consolidations have no legislative sanction; amendments are embodied only for convenience. The original Acts should be consulted for all purposes of interpreting and applying the law.

Printed on 8 1/2 inch by 11 inch, 3-hole punched paper.

	INTERIM DIRECTIVES AND INFORMATIONAL LETTERS 1970 TO DATE	$ 10
	Includes all Interim Directives and Informational Letters that remain current to date.	
	Individual IL's and/or ID's	N/C

Order From

Maps and Publications
Energy Resources Conservation Board
640 5 Avenue SW
Calgary, Alberta
Telephone 297-8328

Published by Alberta Government Services	COAL CONSERVATION ACT AND AMENDMENTS TO SEP 1983	$ 1.00
	GAS RESOURCES PRESERVATION ACT AND REGULATIONS	$ 1.25
	OIL AND GAS CONSERVATION ACT AND AMENDMENTS TO NOV 1984	$ 2.00

ACTS AND REGULATIONS

OIL AND GAS CONSERVATION REGULATIONS (1985)	$ 5.00
OIL AND GAS CONSERVATION AMENDMENT REGULATIONS (1986)	$ .75
PIPELINE ACT CHAPTER P-8 REVISED STATUTES OF ALBERTA, 1980 WITH AMENDMENTS IN FORCE AS OF 30 APRIL 1986	$ 1.25
PIPELINE REGULATIONS (1983)	$ 1.25
QUARRIES REGULATION ACT	$ 0.50
TURNER VALLEY UNIT OPERATIONS ACT	$ 0.50
CLEAN AIR ACT AND CLEAN AIR REGULATIONS AND CLEAN WATER ACT AND CLEAN WATER REGULATIONS	$ 6.50
WATER RESOURCES ACT	$ 2.00
WATER RESOURCES AMENDMENT ACT (1984)	$ 0.50
LAND SURFACE CONSERVATION AND RECLAMATION ACT	$ 1.25
-REGULATED OIL AND GAS PIPELINE SURFACE OPERATION REGULATIONS	$ 0.50
-REGULATED OIL SANDS SURFACE OPERATION REGULATIONS	$ 0.50
-SECURITY DEPOSIT MINISTERIAL REGULATIONS	$ 0.50
-LAND CONSERVATION REGULATIONS	$ 0.50

Order From

Alberta Government Services
Book Store
11510 Kingsway Avenue
Edmonton, Alberta
T5G 2Y5
Telephone 427-4952

or

Maps and Publications
Energy Resources Conservation Board
640 5 Avenue SW
Calgary, Alberta
T2P 3G4
Telephone 297-8328

ERCB SERIAL PUBLICATIONS

WELL LICENCES ISSUED, DAILY LIST

ERCB ST-1	Annual subscription:	
	Pick up from 8 am daily	$ 50
	Mailed daily	$ 200
	Individual year 1949 to date (diazo)	$ 10
ERCB ST-83	Annual subscription for computer tape - daily	$2100

SI units
Lists well name, identifier, licence number, co-ordinates, field, rights, zone, ground elevation, Lahee classification, estimated total depth, drilling contractor, licensee and surveyor, for licences issued the previous day. One copy daily. Pick-up on honour system. Sign register once a month.

ALBERTA DRILLING PROGRESS, WEEKLY REPORT

ERCB ST-2	Annual subscription	$ 200
ISSN 0227-3357	Single copy	$ 10
	Individual year (diazo)	$ 55

SI units
Summary of drilling activity; defined and undefined fields; release of geological markers; drill-stem test results; new licences and status changes. Issued every Friday for week ending previous Monday.

First published in 1950 as Alberta Petroleum Industry Weekly Report, then as Alberta Oil and Gas Industry Weekly Report; 1964 as Weekly Drilling Progress Report; 1967 as Weekly Production and Drilling Statistics, Alberta Oil and Gas Industry; 1980- as current title.

ALBERTA ENERGY RESOURCE INDUSTRIES, MONTHLY STATISTICS

ERCB ST-3	Annual subscription	$ 35
ISSN 0710-6874	Single copy	$ 10
	Individual year (diazo)	$ 25

SI units
Supply and disposition of crude oil, natural gas, gas plant products, refinery products, coal, electric energy; comparison with previous year for months and cumulative year to month-end; activity data. Issued approximately 2 months after month-end.

First published in 1938 as Alberta Oil Production; title varies; 1950 as Alberta Oil and Gas Industry Monthly Report; 1964 as Monthly Statistics, Alberta Oil and Gas Industry; 1972 as Summary of Monthly Statistics, Alberta Energy Resource Industries; 1977 as Monthly Statistics, Alberta Energy Resource Industries; 1980- as current title.

PSU, BLOCK, AND PROJECT APPROVALS, MONTHLY UPDATE

ERCB ST-5	Original set	$ 60
	Annual subscription, issued monthly	$ 85
	Single copy	$ 10

Appendix issued to each operator of a production spacing unit, block, or project; includes name, effective date, minimum allowance, effective area, and a legal description of each PSU. 3-hole punched.

First published in 1965 as Appendix to PSU, Block or Project Approval Summary; 1980- as current title.

ERCB SERIAL PUBLICATIONS

FLUID ANALYSES

ERCB ST-6
ISSN 0710-6904

SI units
Approximately 250 000 non-confidential analyses of oil, gas and water on diazo.

Complete set plus indices by field and by well:	$950
Partial sets by type, including indices: - Oil	$165
- Gas	$340
- Water	$450
Updating service:	
Annual subscription issued monthly	$225

Note: Cost of update service is the same for complete or partial sets.

OIL AND GAS UNITS, QUARTERLY UPDATE

ERCB ST-7	Complete set	$ 25
	Annual subscription, quarterly amendments	$ 25

Official unit name, list of all working owners, and percentage participation; plan of unitized area; operator; first effective and latest revision dates.

ALBERTA WELL PRODUCTION AND INJECTION RECORD

ERCB ST-8	Annual subscription, issued monthly on COM-microfiche	$800
	Year-end only	$400

SI units
Quarter month includes production and injection monthly data from January 1962 with annual and cumulative totals to date; non-quarter month includes current month's production and injection data; second non-quarter month also includes previous month's data. Issued approximately 2 months after end of data month.

SUBSURFACE PRESSURE DATA, QUARTERLY UPDATE

ERCB ST-9	Annual subscription, issued quarterly	$ 75
	Individual year Mar 1978 to date (diazo)	$ 10

SI units
Non-confidential pressures for calendar year; tabulated pressure data to established datum depth of pool; pressure readings not projected to static.

ERCB SERIAL PUBLICATIONS

RESERVOIR PERFORMANCE CHARTS, OIL POOLS

ERCB ST-10 — No longer published
ISSN 0704-3333

RESERVOIR PERFORMANCE CHARTS, GAS POOLS

ERCB ST-11 — No longer published
ISSN 0704-3341

ERCB ST-10 and ERCB ST-11 are no longer published; for information regarding reservoir performance information contact the Records Centre for pressure and production information.

Back issues available	
Individual year (diazo)	$ 10

REPORT OF THE OPERATIONS OF THE OIL AND GAS CONSERVATION BOARD

ERCB-12	Individual year - 1963 to 1978 (diazo)	$ 10

ALBERTA GAS PLANT STATISTICS TO DECEMBER 31

ERCB ST-13A — $175

SI units
Active plant operation histories; daily averages for raw gas receipts, marketable gas deliveries, derivative products and sulphur. Contained in five binders.

ALBERTA GAS PLANT STATISTICS, MONTHLY SUPPLEMENT

ERCB ST-13B	Annual subscription	$ 60
ISSN 0706-1455	Single copy	$ 10
	Individual year (diazo)	$ 10

SI units
Monthly details; plant operations; gas receipts and disposition; production of gas plant products.
Annual subscription includes update for 13A, plus 6-year histories.

First published as Gas Plant Performance Charts; 1972- as current title.

ERCB SERIAL PUBLICATIONS

SCHEDULE OF WELLS DRILLED FOR OIL AND GAS IN ALBERTA

ERCB ST-14 Issued annually
ISSN 0380-4305 as at Dec 31 on COM-microfiche $ 575

SI units
Contains well data as follows:

1. For all wells classified as non-confidential: unique identifier, licence number, bottom hole co-ordinates, surface hole co-ordinates, well name, field/oil sands area, pool/oil sands deposit, Lahee classification, ground elevation, Kelly bushing elevation, spud date, finish drilling date, contractor and rig number (from June 1984), total depth, well status, casing details (size and depth), logs (type and interval), perforations and treatments, drill-stem tests, tops and markers (conventional and TVD).

2. For all wells classified as confidential: unique identifier, licence number, bottom hole co-ordinates, surface hole co-ordinates, well name, field/oil sands area, pool/oil sands deposit, Lahee classification, ground elevation, Kelly bushing elevation, spud date, finish drilling date, contractor and rig number, total depth, well status, casing details (size and depth).

On COM-microfiche in order of location: east to west by township; total replacement issued each year; previously published annually in hard copy form listing only data added since last publication.

ALBERTA OIL AND GAS CONSERVATION SCHEMES

ERCB ST-15 Issued annually as at Dec 31 $ 30
ISSN 0709-5902 Individual year - back issues (diazo) $ 10

SI units
Summary of data on fluid injection; maps of major oil projects.

Oil Projects - field; pool; operator; pool project number; number of production and injection wells; current annual and cumulative production and injection; cumulative replacement ratio; current water-oil and gas-oil ratios.

Gas Schemes - field; formation; operator; productive acreage; commencement year; solution gas produced and conserved for current year; residue gas purchaser.

First published in 1962 as Summary of Units and Conservation Schemes; title varies; 1968 as Oil Conservation Projects and Gas Conservation Schemes, Province of Alberta; 1979- as current title.

ERCB SERIAL PUBLICATIONS

ALBERTA POOL PRODUCTION AND INJECTION RECORD

ERCB ST-16	Annual subscription, issued quarterly on COM-microfiche	$200
	Year-end only	$135

SI units
Monthly totals and cumulative data for all producing and injecting pools since 1962; amended quarterly for field extensions and pool consolidations; designated name of field and pool; oil, gas, and water production; average oil and gas per day, average water-oil or gas-oil ratio; water disposal and injection of fluids.

ALBERTA POOL PRODUCTION AND INJECTION, MONTHLY SUPPLEMENT

ERCB ST-16A	Annual subscription	$ 40
ISSN 0702-3286	Single copy	$ 10
	Subscribers to ERCB-16	N/C
	Individual year (diazo)	$ 12

SI units
Monthly production and injection totals by field and pool and for province; well count semi-annually by field pool and type of well for capable and operating wells.

First published in 1972.

ALBERTA OIL & GAS INDUSTRY, ANNUAL STATISTICS

ERCB ST-17	Issued annually as at Dec 31	$ 20
ISSN 0706-1439	Individual year - back issues (diazo)	$ 10

SI units
Monthly statistics for year, and yearly for 10 years of crude oil and equivalent, gas, refinery products, NGL mixes, ethane, propane, butanes, raw material and fuel, and sulphur; provincial supply and disposition tables of production, inventories and markets; marketable gas withdrawals to December 31; current and historical statements of capable oil, gas, and service wells in major fields; current and historical drilling activity by Lahee classification. Does not list statistics for every field and pool.

First published in 1941 as Alberta Petroleum Industry; 1951 as Alberta Oil and Gas Industry; title varies; 1964 as Cumulative Annual Statistics, Alberta Oil and Gas Industry; title varies; 1975 as Alberta Oil and Gas Industry, Cumulative and Annual Statistics; 1979- as current title.

ERCB SERIAL PUBLICATIONS

ALBERTA'S RESERVES OF CRUDE OIL, OIL SANDS, GAS, NATURAL GAS LIQUIDS, AND SULPHUR

ERCB ST-18	Issued annually as at Dec 31	$ 75
ISSN 0706-3199	Individual year - back issues (diazo)	$ 10

SI units
Terminology and abbreviations; estimates of established reserves by pool and area for conventional crude oil, crude bitumen and synthetic crude oil, gas, ethane, natural gas liquids, and sulphur; pool average rock and fluid basic data and recovery factors; ultimate potential of conventional crude oil, crude bitumen, gas, ethane, natural gas liquids, and sulphur. Data on trends in initial and remaining established reserves of conventional crude oil and marketable gas. Map of crude oil fields, gas fields and strike areas, and oil sands deposits. Map may be purchased separately; see page 48.

First published in 1950 as Natural Gas Reserves, Province of Alberta; 1960 as Reserves of Natural Gas, Natural Gas Liquids, and Crude Oil, Province of Alberta; 1963 as Reserves of Crude Oil, Gas, Natural Gas Liquids and Sulphur, Province of Alberta; 1978- as current title.

PRESSURE-DEPTH AND TEMPERATURE-DEPTH RELATIONSHIPS ALBERTA CRUDE OIL POOLS

ERCB-22	Individual year 1965, 1967, 1970 (diazo)	$ 10/yr

ACID GAS CONTENT OF ALBERTA NATURAL GASES

ERCB-23	Individual year 1968, 1971, 1974 (diazo)	$ 10/yr

OIL ALLOCATION DATA

ERCB ST-24	Annual subscription, issued monthly	$ 65
	Single copy	$ 10
	Individual year Jan 1982 to date (diazo)	$ 10

SI units
Information on each non-confidential prorated crude oil pool with provincial totals: initial established reserves; 1/2 cumulative production; proratable reserves; reserves allocation; adjusted pool allocation; productive area by pool, pool type, and recovery mechanism; expected production by pool and pool type. Information for pools without provincial totals: incapability factor; pool and type performance factor; weighted allocation per hectare; pool well minimum allowance. Provincial totals only for: proratable and adjusted proratable demand; demand adjustment factor; allocation factor. Available after issue of monthly Initial Production Order and its amendments.

First published in 1968 as Oil Proration Data; 1987- as current title.

ERCB SERIAL PUBLICATIONS

HELIUM AND HYDROGEN SURVEY

ERCB-25	Individual year 1968, 1970, 1971, 1972, 1973 (diazo)	$ 10/yr

ALBERTA COAL INDUSTRY, MONTHLY STATISTICS

ERCB ST-26	Annual subscription	$ 20
ISSN 0710-6882	Single copy	$ 10
	Individual year (diazo)	$ 10

SI units
Coal production by type of mine; processing by plant; disposition of coal and coal products by type; inventory changes and market.

First published in 1972, as Monthly Statistics, Alberta Coal Industry; 1980- as current title.

ALBERTA ELECTRIC INDUSTRY, MONTHLY STATISTICS

ERCB ST-27	Annual subscription	$ 20
ISSN 0710-6890	Single copy	$ 10
	Individual year (diazo)	$ 10

SI units
Energy generation by thermal and hydroelectric plants; fuel consumption and conversion efficiency of thermal plants; generation and fuel consumption of isolated utility plants; generation interchanges and distribution; deliveries to ultimate customers by type of account.

First published in 1972 as Monthly Statistics, Alberta Electric Energy Industry; 1980- as current title.

ALBERTA ELECTRIC INDUSTRY, ANNUAL STATISTICS

ERCB ST-28	Issued annually as at Dec 31	$ 20
ISSN 0706-1420	Individual year - back issues (diazo)	$ 10

SI units
Capacity and generation of major power plants by unit, type, and energy resource; generating units approved for construction as of 31 December; industrial plant on-site generating capacity and generation; stack emissions from thermal generating plants; wind-powered electric generators; energy resource consumption and energy conversion efficiency of thermal power plants; details of net peak generation and load by utility operator and for the Alberta interconnected system; generation, peak demand and capacity for the Alberta interconnected system, yearly for 10 years; summary of electric energy generation, inter-change, consumption and distribution; electric energy distribution to ultimate customers; major transmission line additions, summary of circuit kilometres of transmission and distribution lines; 58 cm x 92 cm colour map of Alberta showing major generating plants and transmission line system; 58 cm x 80 cm colour map of Edmonton, Red Deer and Calgary areas showing major generating plants and transmission line system.

Maps may be purchased separately for $15 each. See page 51.

First published in 1972 as Cumulative Annual Statistics, Alberta Electric Industry; 1979- as current title.

ERCB SERIAL PUBLICATIONS

ALBERTA COAL INDUSTRY, ANNUAL STATISTICS

ERCB ST-29	Issued annually as at Dec 31	$ 20
ISSN 0380-4321	Individual year - back issues (diazo)	$ 10

Monthly statistics for the year, and yearly for ten years of subbituminous and bituminous coal; coal exploration for the year; production, supply and disposition of coal and coal products; plant operations; inventories.

First published in 1973 as Cumulative Annual Statistics, Alberta Coal Industry; 1975- as current title.

OIL SANDS WELL DATA

ERCB ST-30A $110

Printed copy of oil sands evaluation well data in card file format (4 card images per sheet) for all non-confidential OV wells drilled (released) within a certain time period not exceeding the last 2 years.

ERCB ST-30B $450

Printed copy of oil sands evaluation well data in card file format (4 card images per sheet) for all non-confidential OV wells drilled in Alberta.

RESERVES OF COAL, PROVINCE OF ALBERTA

ERCB ST-31	Issued annually as at Dec 31	$ 50
ISSN 0380-4275	Individual year - back issues (diazo)	$ 10

SI units
Designates coal fields and coal deposits in Alberta; contains detailed tabulation by fields and deposits of established reserves, and of reserves within mine permit boundaries; ultimate potentials by region, summarizes surface-mineable coal reserves in the Plains region by strip ratio; includes sections on the geology and distribution of coal in Alberta and the distribution of reserves contained in the land categories defined in "A Coal Development Policy for Alberta"; discusses reserves terminology and details of the determination of established reserves; maps included are of Coal in Alberta (south half), Coal in Alberta (north half), and Major Coal-bearing Formations.

Maps listed above may be purchased separately. See page 50.

9th Edition (latest edition)
(Originally 74-E, Review of the Alberta Coal Industry, 1973).

ERCB SERIAL PUBLICATIONS

ALBERTA'S ENERGY RESOURCES, A SUMMARY

ERCB ST-32	Issued annually as at Dec 31	$ 20
ISSN 0706-1412	Individual year - back issues (diazo)	$ 10

SI units
A report containing text plus bar charts, summarizing Alberta's ultimate potential and remaining established reserves of energy resources as at 31 December, for the following: crude oil, synthetic crude oil, and pentanes plus; propane and butanes; gas; coal; hydroelectric energy. Includes statistics on thermal energy content of energy resources, remaining ultimate potential and remaining established reserves in terms of crude oil equivalence, gas equivalence, coal equivalence.

First published in 1973 as Energy Resources of Alberta, A Summary; 1976- as current title.

A GRAPHICAL SUMMARY OF THE ULTIMATE AND PROVED RECOVERABLE RESERVES OF GAS, ETHANE, PROPANE, BUTANES AND CONVENTIONAL CRUDE OIL AND PENTANES PLUS, AND THEIR RELATIONSHIP TO ALBERTA'S REQUIREMENTS

ERCB-33	Individual year 1974 (diazo)	$ 10

ALBERTA'S RESERVES OF GAS, COMPLETE LISTING

ERCB ST-35	Issued annually as at Dec 31 on COM-microfiche	$200
ISSN 0229-8546		

SI units
Contains an expansion of the reserves data reported in ERCB ST 88-18, with individual estimates and reservoir factors by pools and areas of all non-confidential established gas reserves.

Back issues available.

First published in 1979.

On COM-microfiche in order of location: east to west by township, total replacement issued each year.

ERCB SERIAL PUBLICATIONS

LIST OF WELLS IN ALBERTA

ERCB ST-37	Annual subscription, issued quarterly	$300
	Single copy	$100
	ERCB-37 is produced only on COM-microfiche (For magnetic tape file, refer to page 64)	

For all oil and gas wells drilled: identifier, well name, field, pool and operator codes, licensee, total depth, status, and finished drilling date; in order of location east to west by township.

ATLAS OF ALBERTA'S CRUDE BITUMEN RESERVES

ERCB ST 85-38	as at 31 December 1984	$ 20
	Individual year 1980, 1981, 1984 (diazo)	$ 10/yr

A reserves report concerning maps utilized to determine the in-place volumes of crude bitumen in the Athabasca, Cold Lake, and Peace River oil sands deposits for the 1984 reserves publication (ERCB ST 85-18).

New in this edition is an update of the Athabasca, Cold Lake, and Peace River oil sands deposits and maps showing features of the Athabasca Wabiskaw-McMurray surface mineable area. Also included are reserves data for the Athabasca Nisku deposit and the Peace River, Shunda, Upper Debolt, and Lower Debolt deposits, together with supporting maps.

ALBERTA OIL SANDS PLANT STATISTICS MONTHLY SUPPLEMENT

ERCB ST-39	Annual subscription	$ 20
ISSN 0822-1499	Single copy	$ 10
	Individual year Jan 1983 to date (diazo)	$ 10

Report contains Suncor and Syncrude oil sands production and processing, purchased and generated gas and electric energy, inventories and production of synthetic crude oil, intermediates and products, plant uses and deliveries.

ERCB SERIAL PUBLICATIONS

ENERGY ALBERTA

ERCB 87-40	Issued annually as at Dec 31	N/C
ISSN 0833-3505	Individual year - back issues (diazo)	$ 10

The publication is a non-technical report, written for the general public. Alberta's sources of energy - coal, oil, natural gas, oil sands, hydro and electric generation - are reviewed in this colourful, 52-page, easy-to-read publication. The report reviews important energy-related events, such as the 1986 drop in world oil prices, government policy initiatives to improve industry cash flow, an update on Alberta's crude oil prorationing system, and the deregulation of natural gas prices and markets.

Of special interest last year is a section entitled "ERCB and People". In this first-time effort are provided some examples of the kinds of work ERCB does in service to Albertans; an explanation, from a public perspective, of how ERCB's Public Hearing System works; a guide to how ERCB examines energy development applications; and an opportunity to share a day in the life of an ERCB field inspector.

First published in 1983 (1982 year-end data).

NUMBERED DECISION REPORTS

ERCB-42	Annual subscription	$110
	Single copy	$ 10

Includes numbered Decision reports; plus index* of year's Decision reports, issued following year-end.

ALBERTA OIL SANDS ANNUAL STATISTICS

ERCB ST-43	Issued annually as at Dec 31	$ 20
ISSN 0827-3731		

Contains Suncor and Syncrude oil sands plants production and processing from 1967; inventories, production, deliveries, and other uses of synthetic crude oil, other hydrocarbons, coke, sulphur, bitumen, distillate by month for the year.

ALBERTA APPROVED PROJECTS, MONTHLY SUPPLEMENT

ERCB ST-44	Annual subscription	$ 20
ISSN 0827-374X	Single copy	$ 10

Monthly listing of experimental and commercial oil sands and heavy oil schemes. List shows approval number, effective date and expiry date of approval, operator of scheme, geological formation, field or area, location of scheme, recovery method.

Previously published as Active Projects, Alberta Monthly Listing; 1987- as current title.

---

* Complete index available separately from Maps and Publications Department at no charge.

ERCB SERIAL PUBLICATIONS

COAL MINE ATLAS
OPERATING AND ABANDONED COAL MINES IN ALBERTA

ERCB 85-45 Sep 1985 $ 30

A report containing maps and tables of coal mines in Alberta. This atlas is intended to be a help in finding locations of specific mines or for checking for the presence of mines in specific areas. The atlas is also a guide to mine names, mine owners, production figures, lifespans, etc. Includes 419 township maps showing location, type, and size of mines, locations of all current ERCB mine permits and licences; 42 pages of tables containing data on over 1800 mines; a list of mine locations in numerical order; a list of currently permitted mines.

OIL AND GAS WELL BLOWOUT REPORT

ERCB ST-46 Issued annually $ 20
ISSN 0836-0731

This annual report is primarily a statistical report covering four areas: blowouts; wells licensed and drilled; drilling rig inspections; drilling occurrences.

Previously titled "Well Drilling Summary Report".

ALBERTA GAS REMOVAL AND RELATED APPLICATIONS
MONTHLY BULLETIN

ERCB ST-48 Annual subscription $ 25
ISSN 0836-0723 Single copy $ 10

Monthly listing and status update of current and recent applications to the ERCB, under the Gas Resources Preservation Act of Alberta. Monthly listing of Alberta gas and ethane removal permits in force.

SPUD INFORMATION, DAILY LIST

ERCB ST-49 Annual subscription:
Pick up daily $ 50
Mailed daily $200

The spud information is data that was reported to the Energy Resources Conservation Board the previous day. Estimated spud information is accepted and therefore may not be exact.

Provides well name, unique identifier, spud date, and drilling contractor.

GAS PROCESSING PLANTS IN ALBERTA

ERCB ST-50 Annual subscription, issued quarterly $ 20
Single copy $ 10

A complete listing of gas plants in Alberta, identifying the location; Fields served; plant operator and plant design capacities; including sulphur recovery efficiency and maximum sulphur emission rates on a daily basis.

ERCB UNNUMBERED REPORTS

PIGEON LAKE COMMUNITY STUDY RESULTS

Jul 1986 — $ 10

A study to review concerns of the citizens and municipal administrators of the Pigeon Lake area on matters relating to the energy industry.

G ORDER (POOL) BOUNDARIES

Jul 1985

Microfiche	$100
Index	N/C
Individual G Order	$ 10
Plus copies	$ 0.50

The Provincial Government recently announced changes to the Crude Oil Royalty Holiday Program (CORHP) effective 1 October 1986.

At the request of Alberta Energy, and for the revised Crude Oil Royalty Holiday Program, the Board has prepared a set of G orders which define pool boundaries as of 1 October 1986. These G orders were referenced in Alberta Energy's Information Letter 86-36 which provides information concerning eligibility for the revised incentive program.

ENERFAX

N/C

Enerfax is a new series of factsheets about the ERCB and its activities.

The factsheets are intended as a general introduction for non-technical readers. Six factsheets have been published:

1. What Is the Energy Resources Conservation Board?
2. Having Your Say at an ERCB Public Hearing
3. Inspection and Enforcement in Energy Development in Alberta
4. Finding Out! - Publications Available from the ERCB
5. The Lindbergh Oil Sands Area
6. All about Critical Wells

HEAVY METAL AND ORGANIC CONTAMINATION AT THE PINCHER CREEK GAS PLANT

Mar 1984 — $ 10

A three-section report by ERCB staff members H. F. Thimm and D. R. Shaw. Section 1 - Heavy Metal and Organic Contamination at the Pincher Creek Gas Plant An Interpretation; Section 2 - Evaluation of the ERCB Interpretation of the Pincher Creek Gas Plant Reports; Section 3 - Clarifying Comments.

GUIDES

PUBLICATIONS, MAPS AND SERVICES CATALOGUE

Guide G-1 ISSN 0702-3510	Issued annually as at Dec 31 (paper or diazo)	N/C

HOW TO APPLY FOR GOVERNMENT APPROVAL OF COAL PROJECTS IN ALBERTA

Guide G-2	Aug 1981 (2nd Edition)	$ 25
	Previous edition 1978 (diazo)	$ 10

Provincial legislation for coal exploration, development, and processing; preliminary and public disclosures; what to include in an application for approval of coal mining activity; application and reports; coal royalties and taxes; guidelines on environmental protection and reclamation; guidelines on cost-benefit, social impact and historical resources impact assessments.

Note: Revision package (Aug. 1983) is available free of charge to holders of Aug. 1981 edition of G-2.

GAS WELL TESTING, THEORY AND PRACTICE

Guide G-3	4th edition Sep 1979 (SI version of 3rd edition)	$ 50
	Individual year (diazo)	$ 10

Theoretical principles; design and interpretation of deliverability, drawdown, and build-up tests; estimates of reservoir parameters and flow behaviour from limited data; field conducting and reporting of tests; gas properties; calculation of bottom-hole pressures from wellhead measurements; regulations and report forms. Revisions for fourth edition include metrication, minor technical additions, and clarifications; appendices cover gas properties, calculation of bottom-hole from top-hole pressures, and Alberta regulations and reporting forms.

First edition OGCB 64-2; Second edition OGCB 65-10; Third edition ERCB 75-34.

Note: Price to universities, technical schools, students and staff is $30.

DETERMINING WATER PRODUCTION AT GAS WELLS

Guide G-4	Jul 1985 (3rd edition) (paper or diazo)	N/C
	Previous editions 1978 and 1982 (diazo)	N/C

Defines categories of water production and outlines criteria for conducting water-gas ratio tests. Sample calculations and reporting procedures are included.

GUIDES

CALCULATING SUBSURFACE PRESSURE VIA FLUID-LEVEL RECORDERS

Guide G-5	Dec 1978	$ 10

SI units
Preparation of well and sonic instruments prior to survey; acquisition and interpretation of chart data; calculation of subsurface pressure; graphic guides.

See Maps section, page 51.

Originally published as ERCB 74-S.

INDEX OF BOARD ORDERS, MONTHLY UPDATE

Guide G-6	Complete set	$ 50
	Annual subscription, monthly update	$ 50

Lists all existing oil- and gas-related orders and approvals by field and area; type of order and number; effective date. See actual order or approval for full details.

PRODUCTION ACCOUNTING HANDBOOK

Guide G-7	Complete handbook (includes Allowables Section)	$ 20
	Allowables section only	$ 10
	First copy to operator	N/C
	Amendments (to Guide-holders)	N/C

SI edition
Complete Guide is in two parts:

1. Instructions regarding the reporting of production or injection and the disposition of production or injection. This includes detailed instructions for the completion of the following ERCB forms:

S-1	S-4	S-10	S-20
S-2	S-7	S-15	S-21
	S-8	S-18	S-30

2. Allowables Section - Instructions regarding the calculation of oil and gas well allowables in accordance with the oil and gas conservation regulations.

SURFACE CASING MINIMUM REQUIREMENTS AND EXEMPTIONS

Guide G-8	Nov 1984 (paper or diazo)	N/C

Includes introduction, regulations, method of determining minimum depth of surface casing, and exemptions from regulations.

CASING CEMENTING MINIMUM REQUIREMENTS

Guide G-9	Feb 1984 (paper or diazo)	N/C

GUIDES

GUIDE TO MINIMUM CASING DESIGN REQUIREMENTS

Guide G-10 Jan 1979 (paper or diazo) N/C

MINIMUM REQUIREMENTS FOR BLOW-OUT PREVENTION EQUIPMENT

Guide G-11 Dec 1976 (diazo) N/C

See Part 8 of Oil & Gas Conservation Act for current guidelines.

PLANNING, CONDUCTING, AND REPORTING SUBSURFACE PRESSURE TESTS

Guide G-12 Dec 1978 (paper or diazo) N/C

SI units
Board policies and requirements relative to the design, implementation, analysis, and reporting of subsurface pressure tests.

Originally published as ERCB 74-T.

PIPELINE INFORMATION SYSTEM USER'S MANUAL $ 10

Guide G-13 2nd edition
Jan 1986

Designed to assist applicants in completing the new Pipeline Permit and Licence Application form (PL 100). Manual includes sections on new PL 100 application form; how to complete form; how to use the add, change, and delete codes; pipeline plan requirements for applications; format of permit and licence approvals; transfers and name changes; tariff of fees; system codes.

PVT AND CORE STUDIES INDEX

Guide G-14 Issued annually as at Dec 31 $ 15
Individual year 1981, 1982 and 1983 (diazo) $ 10

A revised index of PVT analyses, special PVT studies, and special core studies presently filed at the Board's Records Centre. Includes analyses received by the Board to the end of December.

The index is comprised of three sections: conventional PVT analyses, special PVT studies, and special core studies. The entries within each section are listed in alphabetic sequence by abbreviated pool name (formation identification) and field name, and by unique well identifier.

Please note that one year must elapse from the date of analyses shown for each report before information from the report may be released. As a result, the data from some analyses listed is still confidential.

EFFECT OF TENSILE LOADING ON CASING COLLAPSE

Guide G-15 Feb 1983 (paper or diazo) N/C

GUIDES

THE ERCB PUBLIC HEARING PROCESS

Guide G-16 Jan 1980 (paper or diazo) N/C

Topics covered include notice; hearing: what's involved, purposes, hearing panel, conduct of hearing; applications to the Board; interventions.

TRANSMISSION LINES AND THE REGULATORY PROCESS IN ALBERTA

Guide G-17-1 Jan 1980 (paper or diazo) N/C

A general outline of the process by which a transmission line is planned, applied for, and considered by regulatory authorities, and how input from affected parties is incorporated.

Note: Present stock is labelled G-16-1. Future printings will be G-17-1.

WELL-SITE SELECTION AND THE SURFACE OWNER

Guide G-17-2 Jun 1982 (paper or diazo) N/C

A general guide for landowners and occupants which outlines their rights and the restrictions governing the location of a well site. This guide forms part of an information package that must be delivered by an agent on first contact with a landowner.

See page 43 for related material.

PIPELINE AND SURFACE RIGHTS
A GUIDE FOR LANDOWNERS AND OCCUPANTS

Guide G-17-3 Jul 1985 (paper or diazo) N/C

FSBERRSI REVISED COMPUTER PROGRAM TO CALCULATE ERROR IN PRORATION-BATTERY MEASUREMENT OF WELL AND POOL PRODUCTION

Guide G-18 Dec 1981 (paper or diazo) N/C

This program is an engineering tool that is used in the initial design of an oil well battery to determine what equipment may be required to meet ERCB measurement accuracy guidelines.

UNIQUE WELL IDENTIFIER USER MANUAL

Guide G-19 Feb 1981 (paper or diazo) N/C

Contains information on the use and format of unique well identifier as pertains to oil and gas, coal, and oil sands resource areas.

GUIDES

GUIDELINES RESPECTING AN APPLICATION TO CONSTRUCT OR ALTER AN ELECTRIC TRANSMISSION LINE

Guide G-22 May 1981 (paper or diazo) N/C

Contains information requirements of both ERCB and Alberta Environment. Composed of four sections: project description, technical information, environmental information, and economic assessment.

GUIDELINES RESPECTING AN APPLICATION FOR A COMMERCIAL CRUDE BITUMEN RECOVERY AND UPGRADING PROJECT

Guide G-23 May 1981 (paper or diazo) N/C

Contains information requirements of both ERCB and Alberta Environment. Composed of four sections: project description, technical information, environmental impact assessment, and economic information, with additional clause on historical resource assessments.

PIPELINE APPLICATIONS TO THE ERCB A GUIDE TO CONTENT

Guide G-24 Dec 1981 (paper or diazo) N/C

Contains information requirements of both ERCB and Alberta Environment. Composed of four sections: project description and technical information, right-of-way information, biophysical and social information, and economic information.

INDUSTRIAL DEVELOPMENT PERMIT APPLICATIONS TO THE ERCB A GUIDE TO CONTENT

Guide G-25 Sep 1981 (paper or diazo) N/C

Information requirements of ERCB and Alberta Environment; composed of four sections; project description, technical information, biophysical and social information, and economic information.

SOUR-GAS PROCESSING - PLANT APPLICATIONS TO THE ERCB A GUIDE TO CONTENT

Guide G-26 Sep 1981 (paper or diazo) N/C

Information requirements of ERCB and Alberta Environment; emphasis on biophysical and social information requirements.

THERMAL POWER PLANT APPLICATIONS TO THE ERCB A GUIDE TO CONTENT

Guide G-28 Dec 1982 (paper or diazo) N/C

Information requirements of ERCB and Alberta Environment; project description, technical information, environmental information and economic information.

GUIDES

PUBLIC GUIDE TO PROCEDURE AT BOARD HEARINGS

Guide G-29 Jan 1982 (paper or diazo) N/C

A two-page leaflet for the information of the general public and for those members of the public attending Board hearings as interveners.

CARELESS CONSTRUCTION NEAR PIPELINES CAN CAUSE ACCIDENTS

Guide G-30 Oct 1983 (paper or diazo) N/C

The guide is a leaflet which in cartoon form summarizes the steps to be taken when comtemplating a ground disturbance near pipelines.

GUIDELINES RESPECTING APPLICATIONS FOR LOCAL INTERVENERS' COSTS AWARDS

Guide G-31 Apr 1983 (paper or diazo) N/C

The guide reviews who may be entitled to an award of costs, what types of costs are normally recovered, the kinds of costs awards which have been granted, how an intervener makes an application for an award of costs, how the ERCB processes a claim for an award of costs, costs advances, the principle reasonableness of costs. Provides a form for making a claim for costs.

COMMON GAS PURCHASER AND RELATED MATTERS
BOARD POLICY AND VIEWS

Guide G-32 Nov 1983 (paper or diazo) N/C

This guide results from the Board's review of the Declaratory Provisions of Part 10 and Section 23 of the Oil and Gas Conservation Act and discusses a number of matters where problems have been experienced or perceived by the industry, including apportioning under a common-purchaser order, discrimination, retroactivity and method of adjustment, cross-dedication, areally extensive pools, and gas PSU administration.

APPLICATION FOR A WELL LICENCE
INSTRUCTIONS FOR COMPLETION OF FORM ED-1

Guide G-33 Feb 1985 N/C

Addresses in detail the following aspects of the well licence application (Form ED-1): purpose; location and depth; casing program; mineral rights; surface impact; and surface rights.

GUIDELINES FOR AUTOMATED MEASUREMENT SYSTEM APPLICATIONS

Guide G-34 Apr 1986 N/C

Assists industry in making applications for automated measurement systems (computerized systems), and makes reference to system requirements that can be used for production measurement purposes.

GUIDES

RIG INSPECTION MANUAL

Guide IG-11	Sep 1985	$ 10
	Amendments (to Guide-holders)	N/C

Outlines the procedures and items checked by the ERCB staff when inspecting drilling and service rigs.

ERCB REPORTS

Note: **The publications listed under the heading "ERCB Reports" are available in hard copy, and may be available on diazo. If a publication is not listed in the "ERCB Reports" Section of the Catalogue, it is available only on diazo. For older publications, see the Maps and Publications Department or the ERCB Library.**

ENERGY REQUIREMENTS IN ALBERTA 1986-2010

ERCB 86-A Oct 1986 — Volumes 1 and 2 $40; Volume 1 (only) $10

ERCB's analysis and forecast of Alberta's long-term energy requirements based on evidence received in September 1985 and on its own studies.

Discusses population and economic growth of Alberta's economy; energy conservation by end-use category and for key industrial sectors; annual secondary energy requirements by end-use category and by fuel type; annual primary energy requirements by energy resources; energy alternatives.

REPORT TO THE MINISTER OF ENERGY ON THE REVIEW OF CERTAIN GAS REMOVAL PERMITS ISSUED 3 JANUARY 1986

ERCB 86-B Nov 1986 — $10

Incudes introduction (containing reasons for the review and procedures used); identification of primary issues; markets; availability of reserves; findings and recommendations; table of permits reviewed.

SULPHUR RECOVERY AT ALBERTA GAS PLANTS PHASE I OF A REVIEW OF THE GUIDELINES TASK FORCE REPORT

ERCB-AE 86-AA Sep 1986 — $ 10

By staff of ERCB and Alberta Environment in first phase of a formal review of Alberta's sulphur recovery guidelines for sour gas processing plants. The report is for public, special interest groups, industry, and government who have been appointed to take part in second phase of the review during which policy recommendations will be formulated.

Report discusses development of Alberta's current guidelines; sulphur recovery requirements in other jurisdictions; sulphur recovery and tail gas clean-up technology; economic effects of varying sulphur recovery levels; alternative recommendations for new sulphur recovery guidelines.

ADDENDUM TO ERCB-AE 86-AA

Feb 1987 — N/C

Contains the task force's responses to a number of questions asked by the review committee as part of the current review of Alberta's sulphur recovery guidelines.

ERCB REPORTS

APPLICATION BY SOCIETE QUEBECOISE D'INITIATIVES PETROLIERES
GAS REMOVAL PERMIT

ERCB D 86-1 Jan 1986 $ 10
GR 86-1

Deals with an application for amendment of gas removal permit SQ 83-1, to increase authorized removal volumes and add fields, pools, and areas from which gas may be removed from Alberta.

Discusses availability of reserves; economic impacts; contract carriage of gas in Quebec; sharing of transportation costs; non-arm's length purchase of gas by distributors.

A REPORT ON AN APPLICATION BY SHELL CANADA LIMITED
TO DRILL A CRITICAL SOUR WELL IN THE
JUTLAND (CASTLE RIVER SOUTH) AREA

ERCB D 86-2 Jun 1986 $ 10

Deals with application by Shell Canada Limited for a licence to drill a critical sour gas well in the Jutland (Castle River South) area.

Discusses justification or need for well; potential environmental impacts and mitigative measures; potential impacts on commercial and recreational users; precautions to prevent a blowout; actions in the event of a blowout; potential impacts of a blowout.

APPLICATION BY HEWITT OIL (ALBERTA) LTD.
FOR APPROVAL OF A GAS PROCESSING PLANT
GOLDEN SPIKE AREA

ERCB D 86-3 Jun 1986 $ 10

Discusses the need for the gas plant; the location and size of the gas plant; effects of the gas plant on the surrounding area.

ATLAS YELLOWKNIFE RESOURCES LTD.
PIGEON LAKE GAS PROCESSING PLANT AND OIL BATTERY

ERCB D 86-4 Apr 1986 $ 10

Deals with application by Atlas Yellowknife Resources Ltd. for approval to construct and operate a gas processing plant and a central multi-well oil battery in the Pembina field north of Pigeon Lake.

Discusses the need for the gas plant and central oil battery in the Pigeon Lake area; the suitability of the proposed site.

ERCB REPORTS

ALBERTA ENERGY COMPANY LTD.
APPLICATION TO CONSTRUCT WATER EFFLUENT,
AMMONIA, AND NITROGEN PIPELINES

ERCB D 86-5 Apr 1986 $ 10

Deals with applications by Alberta Energy Company Ltd. to construct pipelines in the Joffre area to transport water effluent from AEC/Cominco Joffre nitrogen project to the Red Deer River; to transport liquid anhydrous ammonia from the AEC/Cominco Joffre nitrogen project to the Chigwell terminal; and to transport nitrogen from the Union Carbide Prentiss plant to the AEC/Cominco Joffre nitrogen project.

Discusses reasons for an off-site storage and loading terminal near Chigwell and its impacts; design of the ammonia pipeline; routing of the nitrogen pipeline.

ESSO RESOURCES CANADA LIMITED
COLD LAKE PRODUCTION PROJECT
PHASES 7 TO 10

ERCB D 86-6 Jul 1986 $ 10

Deals with an application for approval of specific technical details respecting the implementation of phases 7 to 10 of Esso's Cold Lake production project.

Discusses summary of main details of phases 7 to 10; make-up fuel source; additional fresh water make-up volumes required during the start-up period; builders' liens; general environmental concerns; project cost/benefit analysis.

APPLICATION FOR GAS REMOVAL PERMIT
SHELL CANADA LIMITED

ERCB D 86-7 May 1986 $ 10

Deals with an application by Shell Canada Limited for a new gas removal permit authorizing the removal from Alberta of 7420×10^6 cubic metres of gas over an 11-year-and-5-month term.

Discusses the application; the hearing; gas surplus matters; reasons for the decision; decision.

DIAMOND SHAMROCK EXPLORATION OF CANADA, LTD.
APPLICATION FOR A WELL LICENCE
PEMBINA FIELD

ERCB D 86-8 May 1986 $ 10

Deals with an application by Diamond Shamrock Exploration of Canada, Ltd. for a licence to drill a well from a surface location in legal subdivision 8 of section 15, township 47, range 1, west of the 5th meridian; objections to the application.

Discusses background to the application; details of the application and objections; approval of the application.

ERCB REPORTS

TRANSALTA UTILITIES CORPORATION
CASCADE HYDRO DEVELOPMENT MODIFICATIONS

ERCB D 86-9 Jul 1986 $ 10

Deals with application by TransAlta Utilities Corporation to modify the Cascade hydro development and Ghost diversion.

Discusses the background to the 1985 approval of the facilities to increase the spill capacity of the Bearspaw hydro development; the application to modify the Cascade hydro development and Ghost diversion.

PANCANADIAN PETROLEUM LIMITED
COMMERCIAL OIL SANDS PROJECT
LINDBERGH AND FROG LAKE SECTORS

ERCB D 86-10 Aug 1986 $ 10

Deals with an application for approval to construct and operate Phase 1 of a 3-phase commercial oil sands project.

Discusses a summary of the main details of Phase 1; lease size, location and dike requirements; socioeconomic and environmental impacts of the project.

NORCEN ENERGY RESOURCES LIMITED
SOLUTION GAS PROCESSING PLANT AND CENTRAL OIL BATTERY
SPIRIT RIVER FIELD

ERCB D 86-11 Oct 1986 $ 10

Deals with an application by Norcen Energy Resources Limited for approval to construct and operate a solution gas processing plant and central multi-well oil battery in the Spirit River field, south of the town of Spirit River.

Discusses the need for the gas plant and central battery; the appropriate location of the facilities; effects of the gas plant on the surrounding area.

HIGH LEVEL ENERGY LTD.
APPLICATION FOR A WELL LICENCE

ERCB D 86-12 Mar 1987 $ 10

Deals with an application for a well licence to drill a well in legal subdivision 8 of section 13, township 51, range 26, west of the 4th meridian, to evaluate and obtain production from the Basal Quartz Sandstone.

Discusses the purpose of the well; safety of the public; impacts of the well; proximity to the municipal reserve.

GULF CANADA CORPORATION
APPLICATION FOR A WELL LICENCE
ST. ALBERT-BIG LAKE FIELD

ERCB D 86-13 Aug 1986 $ 10

Deals with an application for a well licence to drill a well in legal subdivison 1 of section 24, township 53, range 26, west of the 4th meridian, to evaluate and obtain production from the Leduc and/or Nisku Formations.

Discusses the need for the well; the surface location of the well; the impact of the well during drilling and production phases.

ERCB REPORTS

GULF CANADA CORPORATION
COMPULSORY POOLING
CHEDDERVILLE AREA

ERCB D 86-14 Aug 1986 $ 10

Deals with an application for an order designating that all tracts within Section 21-37-7 W5M be operated as a unit for production of gas.

Discusses the need for a compulsory pooling order; allocation to each tract of its share of costs and revenues; zones to be included in the pooling order; period of time provided for which to drill a well after receipt of the order; penalty for late payment of a tract's share of drilling and completion costs; taking in kind or selling of a tract-holder's share of production.

TOWN OF OKOTOKS
PURSUANT TO SECTION 34 OF THE PIPELINE ACT

ERCB D 86-15 Oct 1986 $ 10

Deals with an application by the Town of Okotoks, pursuant to section 34 of the Pipeline Act, requesting the ERCB to direct Canterra Energy Ltd. to locate an emergency shutdown valve on Canterra's existing pipeline at approximately LSD 9-35-20-29 W4M.

Discusses the need in the public interest for the ESD valve in the present situation; the need in the public interest for the ESD valve to accommodate a future situation; the allocation of costs if a valve is found to be needed.

CHEVRON CANADA RESOURCES LIMITED
INCREASED ETHANE RECOVERY
KAYBOB SOUTH GAS PROCESSING PLANT

ERCB D 86-16 Sep 1986 $ 10

Deals with application to operate Kaybob South deep-cut facilities at a higher ethane recovery efficiency.

Discusses degree of incremental liquids production; markets and cost of ethane; impacts on the straddle plant system and the petrochemical industry; impact on the potential for enhanced recovery of oil; economic benefits to the province; proprietary rights of the producer; upgrading of resources.

NORTHWESTERN UTILITIES LIMITED
APPLICATION FOR A WELL LICENCE
HERCULES FIELD

ERCB D 86-17 Sep 1986 $ 10

Deals with application to drill a well in LSD 6-34-51-23-W4M, to evaluate and obtain production from the basal quartz formation.

Discusses need for the well, location of the well, impact of the well.

ERCB REPORTS

FORDING COAL LIMITED
APPLICATION FOR APPROVAL OF CASSILS RAILWAY SIDING
FOR SHIPMENT OF BULK COAL SAMPLES

ERCB D 86-18 Oct 1986 $ 10

Application for use of Cassils railway siding for shipment of bulk coal samples to potential customers for test purposes.

Contains need for a railway load-out facility to ship bulk coal samples; technical and economic suitability of the Cassils siding; environmental impacts on Cassils residents; safety concerns with increased heavy traffic on the Cassils road.

APPLICATION FOR GAS REMOVAL PERMIT
PSR GAS VENTURES INC.

ERCB D 86-19 Dec 1986 $ 10

Deals with an application by PSR Gas Ventures Inc. for a new gas removal permit authorizing the removal from Alberta of 1.5×10^9 cubic metres of gas over a 15-year term.

Discusses the application and hearing; availability of reserves; gas surplus matters; principles which determine gas price; affiliated producer-distributor transactions; decision.

WESTBURNE PETROLEUM & MINERALS LTD.
COMPULSORY POOLING
LONG COULEE FIELD

ERCB D 86-20 Dec 1986 $ 10

Deals with an application for an order designating that all tracts within the drilling spacing unit comprising section 12 of township 16, range 22, west of the 4th meridian (section 12), be operated as a unit to permit the production of gas from the Glauconitic Sandstone.

Discusses the allocation of Glauconitic net gas pay thicknesses between the tracts in section 12; the Board's decision to deny the application and the reasons for its denial.

PRE-HEARING MEETING
CHEVRON CANADA RESOURCES LIMITED
GAS PROCESSING - KAYBOB SOUTH AND VARIOUS FIELDS

MEMORANDUM OF DECISION Aug 1986 $ 10

Deals with an application by Chevron Canada Resources Limited to operate its Kaybob South deep-cut facilities at an increased ethane recovery efficiency.

Discusses need for hearing; need for additional information; suitability of reinstating a previously issued ERCB letter of approval of the application; ERCB's intended procedure in deciding on the application.

ERCB REPORTS

DOME PETROLEUM LIMITED
REVIEW AND RESCIND BOARD ORDER NO. MISC 7806
NORTH COLEMAN GAS BLOCK NO. 1
COLEMAN FIELD

MEMORANDUM OF HEARING Feb 1986 $ 10

Deals with ERCB hearing evidence to assist in deciding if it should review Order No. Misc 7806 and, if a review were undertaken, if it should rescind the order establishing the North Coleman gas Block No. 1.

Discusses the ownership within the block; off-target status of the well located in LSD 4-23-9-4 W5M; impact of the block on conservation and equity; advertisement of original application for the block order; initial validity of block order; intervening amendments to the regulations with respect to gas blocks and production spacing units.

GAS SUPPLY PROTECTION FOR ALBERTA
POLICIES AND PROCEDURES

ERCB 87-A Mar 1987 N/C

Deals with matters pertaining to a review by the ERCB of its procedures and formulae used in the administration of the Gas Resources Preservation Act and modifications considered necessary and advisable in the public interest.

Includes executive summary; introduction; views of the participants; views of the Board; findings; appendices and tables.

NOVACORP PIPELINES LTD.
APPLICATION TO CONSTRUCT A PIPELINE AND RELATED FACILITIES

ERCB D 87-1 Jan 1987 $ 10

Deals with the application by Novacorp Pipelines Ltd. to construct a pipeline and related facilities to transport condensate and butane from a proposed pump station at Shell Canada Limited's existing Waterton gas plant to a proposed meter station on Gulf Valley Pipeline.

Discusses the need for and timing of the pipeline; pipeline design, safety, and construction; the proposed route.

ADDENDUM TO BOARD DECISION D 87-1

Mar 1987 N/C

In the decision report the Board requested information on alternative routes in and near the Chain Lakes Provincial Park. The applicant subsequently submitted an amended route which has the agreement of all affected parties.

The addendum contains the Board's disposition of the amended application.

ERCB REPORTS

TUMIT PETROLEUMS LTD.
APPLICATION FOR A WELL LICENCE
ACHESON EAST FIELD

ERCB D 87-2 Jan 1987 $ 10

Application for a well licence to re-enter an abandoned well in legal subdivision 10 of section 30, township 52, range 25, west of the 4th meridian, to evaluate and obtain production from the Blairmore and/or Wabamun Formations.

Discusses the need for the well; the location of the well.

DIAMOND SHAMROCK EXPLORATION OF CANADA, LTD.
APPLICATION FOR A WELL LICENCE
PEMBINA FIELD

ERCB D 87-3 Feb 1987 $ 10

Application for a well licence to drill a well from a surface location in legal subdivision 10 of section 14, township 47, range 1, west of the 5th meridian, to a projected bottom-hole location in legal subdivision 16 of section 10, township 47, range 1, west of the 5th meridian, to evaluate and obtain production from the Leduc Formation.

Discusses the need for the well; nature of production from the proposed well; location of the well; impact of the well; emergency plan; consideration for future development.

COREXCAL, INC.
APPLICATION FOR A WELL LICENCE
WEST DRUMHELLER AREA

ERCB D 87-4 Feb 1987 $ 10

Application for a well licence to drill a well in legal subdivision 1 of section 19, township 29, range 20, west of the 4th meridian, to evaluate and obtain production from the Nisku Formation.

Discusses the need for the well; need for the well at a specific bottom-hole location; suitability of the proposed surface location.

G.N.E. RESOURCES LTD.
REDUCED GAS WELL SPACING
PREVO AREA

ERCB D 87-5 Mar 1987 $ 10

The report deals with an application for an order prescribing drilling spacing units of one quarter section, with the target areas being legal subdivisions 6, 8, 14, or 16 in accordance with Board Order No. SU 1088, for the production of gas from the Viking Formation in section 19 of township 39, range 1, west of the 5th meridian.

ERCB REPORTS

SULPETRO LIMITED
ELMWORTH GAS PROCESSING PLANT

ERCB D 87-6 Apr 1987 $ 10

Application for approval to operate the Elmworth deep-cut plant at an increased throughput and to remove the restriction on ethane recovery efficiency.

Discusses the definition of the issues; the changes in the scheme since the original application; the impact of the scheme on downstream interests.

DOME PETROLEUM LIMITED
PETRO-CANADA INC.
AMOCO CANADA PETROLEUM COMPANY LTD.
GAS CYCLING - BRAZEAU RIVER NISKU P POOL

ERCB D 87-7 Apr 1987 $ 10

Applications were for gas cycling in the Brazeau Nisku P Pool.

Discusses whole-pool versus multiple competitive schemes; operating conditions and limits, voidage replacement ratio, reservoir pressure, drilling additional wells, cycling rates, performance reports and information exchange.

SHELL CANADA LIMITED
APPLICATIONS FOR BEARBERRY DEMONSTRATION PROJECT

ERCB D 87-8 Apr 1987 $ 10

Applications were for a sour gas plant to primarily produce liquid sulphur from two wells, connecting pipelines for fluids to control downhole well producing conditions and for moving high H_2S content fluid to the plant, and a fuel gas pipeline.

Discusses the general suitability of the integrated facilities for the purpose of conducting the demonstration project; pipeline design features; plant design for stability and safety; plant emissions and monitoring; truck traffic; other environmental impacts; communications with local residents and towns.

NORCEN ENERGY RESOURCES LIMITED
APPLICATION FOR APPROVAL OF A GAS PROCESSING PLANT
IN THE CAMPBELL-NAMAO FIELD

ERCB D 87-9 Jun 1987 $ 10

Deals with an application by Norcen Energy Resources Limited for approval to construct and operate a sour gas processing plant in the Morinville Field.

Discusses the purpose of the plant and the public interest; the appropriate location of the gas plant; effects of the gas plant on the local residents and the surrounding area.

ERCB REPORTS

CHEVRON CANADA RESOURCES LIMITED
AMENDMENT TO APPROVAL NO. 5147
ENHANCED RECOVERY - MITSUE GILWOOD A POOL

ERCB D 87-10 Jun 1987 $ 10

Deals with an application by Chevron Canada Resources Limited for amendment of Approval No. 5147 to permit conversion of the well, CHEVRON MGSU 1 MITSUE 4-27-73-5 W5M, to fresh water injection service.

Contains an examination of the need for injection controls at the proposed injector; a procedure for expeditious consideration of requests to vary approval conditions.

PANCANADIAN PETROLEUM LIMITED
APPLICATION FOR A WELL LICENCE
MEDICINE HAT FIELD

ERCB D 87-11 Sep 1987 $ 10

An application for a well licence to drill a well from a surface location in legal subdivision 5 of section 17, township 13, range 5, west of the 4th meridian, to evaluate and obtain production from the Glauconitic Sand.

The report discusses the need for the well; impact of the well on the land surface; impact of the well on future development plans for the land surface.

ALBERTA POWER LIMITED
240-kV TRANSMISSION LINE RE-ROUTE
STAR AREA

ERCB D 87-12 Jun 1987 $ 10

Application for approval to re-route a 2.4-km portion of a previously approved 240-kV double-circuit transmission line in the Star area.

Discusses definition of the tree removal issue; the resolution of the issue between the applicant and affected landowner; the decision as it relates to the public interest.

APPLICATION BY FEDERATED PIPE LINES LTD.
TO CONSTRUCT A PIPELINE AND RELATED FACILITIES
BONNIE GLEN TO ACHESON

ERCB D 87-13 Oct 1987 $ 10

Deals with an application by Federated Pipe Lines Ltd. (Federated) to construct a pipeline to transport high vapour pressure products from the Texaco Canada Resources Bonnie Glen Gas Plant to a recently-constructed Federated pipeline near Acheson.

Discusses the purpose and necessity of the pipeline; the need to establish a utility corridor; local route selection issues; safe design, emergency response, and impact on the community.

ERCB REPORTS

ADDENDUM TO BOARD DECISION D 87-13

Nov 1987 N/C

Deals with a discrepancy between Federated's design intentions and its written and hearing testimony regarding the continuous concrete coating thickness for the Wizard Lake crossing.

Discusses the reasons for the occurrence of this error; the need for accurate and understandable communications; the adequacy of the corrected concrete coating thickness.

APPLICATION BY ALBERTA POWER LIMITED
ALBERTA-SASKATCHEWAN INTERCONNECTION
EMPRESS AREA

ERCB D 87-14 Oct 1987 $ 10

Alberta Power Limited applied, under sections 12, 13, 14, 15, 16, and 17 of the Hydro and Electric Energy Act, for approval to construct and operate a DC back-to-back converter station and associated facilities to provide an interconnection between the electric systems of Alberta Power Limited and Saskatchewan Power Corporation in the Empress Area.

Discusses justification for the interconnection; benefits associated with interconnecting the electric systems of the two provinces.

ADDENDUM TO BOARD DECISION D 87-14

Nov 1987 N/C

In the decision report the Board approved a 100-MW capacity interconnection between the electric systems of Alberta Power Limited and Saskatchewan Power Corporation.

In the addendum the Board approves Alberta Power's request to increase the interconnection capacity to 150 MW; also contains the Board's decision approving the route for the 230-kV transmission line interconnecting the two systems.

APPLICATION BY PEACE PIPE LINE LTD.
PIPELINE CONSTRUCTION AT ROAD CROSSINGS
COUNTY OF LAC STE. ANNE

ERCB D 87-15 Sep 1987 $ 10

Peace Pipe Line Ltd. applied, under section 41 of the Pipeline Act, for approval to construct a 508-millimetre outside diameter crude oil pipeline across four roads within the county of Lac Ste. Anne.

Discusses the future cost of relocation; the need for a security deposit; locating, marking, and exposing the pipeline; the depth of cover.

ERCB REPORTS

SHELL CANADA LIMITED
WELL LICENCE APPLICATIONS
WATERTON/PRAIRIE BLUFF AREA

ERCB D 87-16 Oct 1987 $ 10

Deals with an application by Shell Canada Limited for licences to drill two critical sour gas wells on Prairie Bluff (Corner Mountain) in the Waterton Area.

Discusses need for the wells; alternative surface locations; potential impacts; mitigation of potential impacts.

GULF CANADA CORPORATION
APPLICATIONS FOR PIPELINES IN THE
CAROLINE AREA

ERCB D 87-17 Dec 1987 $ 10

The applications were for 15.9 km of 168.3-mm O.D. pipeline to transport sour gas from a well at Lsd 8-1-36-6 W5M to a compressor station at Lsd 9-34-35-5 W5M; 13.5 km of 88.9-mm O.D. pieline to transport fuel gas to the 8-1 well from a Gulf pipeline at 8-34-35-5 W5M.

Discusses the suitablility of the pipeline facilities; the implications of tying in and placing the 8-1 well on production at this time in relation to the economic, orderly, and efficient development of the Caroline Swan Hills Pool, including safe and environmentally acceptable production, transportation, and processing.

UNION PACIFIC RESOURCES INC.
SPECIAL GAS WELL SPACING
FERRYBANK AREA

ERCB D 87-18 Nov 1987 $ 10

Deals with application for an order establishing fractional section 16 of township 44, range 28, west of the 4th meridian, fractional section 28 of township 44, range 28, west of the 4th meridian, and fractional section 4 of township 45, range 28, west of the 4th meridian, as special drilling spacing units for the production of gas from all zones. Target areas would be within the central part of the drilling spacing units, having sides 150 metres from the east and west boundaries of the drilling spacing units and parallel to them, and having sides 300 metres from the north and south boundaries of the drilling spacing units and parallel to them.

MEMORANDUM OF DECISION
CANADIAN OCCIDENTAL PETROLEUM LTD.
PETROGAS PROCESSING LTD.
HEARING DATE AND PROCEDURES
NORTHEAST CALGARY AREA

May 1987 $ 10

Deals with scheduling of a public hearing respecting applications by Canadian Occidental Petroleum Ltd. and Petrogas Processing Ltd. to drill two sour gas wells and construct sour gas and related pipelines respectively; hearing procedures.

Discusses status of the Concord Study; need for and timing of a hearing; intervener funding; issues and hearing alternatives; relevant documents list.

MEMORANDUM OF DECISION
SMALL POWER INQUIRY
PROCEEDING NO. 870621

May 1987 $ 10

Deals with the findings of a planning meeting held in May 1987 by the Energy Resources Conservation Board and the Alberta Public Utilities Board to consider a request by the Lieutenant Governor in Council that the two boards inquire into electrical generation by small power generators and report back to the Government with such recommendations that are necessary and advisable.

Discusses the appropriateness of a public hearing or other methods of conducting the inquiry; the location and appropriate timing of a hearing; the inquiry process and hearing procedures; the timing of major events in the inquiry process; the issues to be dealt with in the inquiry.

MEMORANDUM OF DECISION
SMALL POWER INQUIRY
PROCEEDING NO. 870621

Jun 1987 $ 10

Deals with the findings of a pre-hearing conference held on 10 June 1987 by the Energy Resources Conservation Board and the Alberta Public Utilities Board to consider matters relating to the inquiry into electrical generation by small power generators.

Discusses requests to the electric utilities to provide information to participants for the purpose of assisting with submissions to the inquiry; inquiry administrative matters; a suggestion that small power should be defined prior to the hearing on 5 October 1987.

NON-ERCB REPORTS

CSA STANDARDS, PIPELINES AND PIPING

A selected number of standards published by the Canadian Standards Association are sold by the Board.

GAS PIPELINE SYSTEMS	
Z184-M86	$ 48
OIL PIPELINE SYSTEMS	
Z183-M86	$ 48
STEEL LINE PIPE	
Z245.1-M86	$ 45
STEEL VALVES FOR OIL AND GAS PIPELINE SYSTEMS	
Z245.15-M87	$ 35
STEEL FITTINGS	
Z245.11-M85	$ 35
STEEL FLANGES	
Z245.12-M85	$ 35
ALUMINUM PIPE AND PRESSURE PIPING SYSTEMS	
Z169-M78	$ 27
DEFINITIONS, GENERAL REQUIREMENTS, AND METHODS OF TESTING FOR THERMOPLASTIC PRESSURE PIPING	
B137.0-M86	$ 27
POLYETHYLENE PIPING SYSTEMS FOR GAS SERVICES	
B137.4-M86	$ 31
EXTERNAL FUSION BOND EPOXY COATED STEEL PIPE	
Z245.20-M86	$ 40

ENVIRONMENTAL IMPACT ASSESSMENT GUIDELINES

Feb 1977 — N/C

Published by Alberta Environment

GAS PROCESSING PLANTS WASTE WATER MANAGEMENT STANDARDS

Sep 1973 — N/C

Published by Alberta Environment

NON-ERCB REPORTS

GUIDELINES FOR THE RECLAMATION OF LAND IN ALBERTA

Dec 1977 N/C

Published by Alberta Environment

GUIDELINES ON THE USE AND ACCEPTABILITY OF OIL SPILL DISPERSANTS

2nd edition
Mar 1984 N/C

Published by Environment Canada

INTERIM GUIDELINES HISTORICAL RESOURCES IMPACT ASSESSMENTS

Mar 1977 N/C

Published by Alberta Culture

NEGOTIATING SURFACE RIGHTS

1986 N/C

Published by Alberta Agriculture
(Farmers' Advocate)

For related material see Guide G-17-2, page 25.

STACK SAMPLING CODE

1976 N/C

Published by Alberta Environment

THE LAND CONSERVATION AND RECLAMATION COUNCIL (LCRC)

May 1982 N/C

Published by Alberta Environment and Alberta
Energy and Natural Resources

OIL SANDS BITUMEN EXTRACTION PROCESS EVALUATION

Mar 1984 $ 55

(Authors: Dynawest Projects)

Prepared for the Energy Resources Conservation Board, the study evaluated alternative processes for extraction of bitumen from mined oil sands. A preliminary technical evaluation of possible processes was first undertaken and then selected processes were subjected to detailed evaluation.

The final report of the investigation concluded that, of the processes considered, the Taciuk process being developed by UMATAC Industrial Processes Ltd. appears to have favourable long-term potential, while a process being developed by the Syncrude Consortuim - Two Stage Flotation - would be advantageous and could be placed in commercial use in a relatively short time frame.

NON-ERCB REPORTS

INFORMATION REQUIREMENTS FOR REGULATED PIPELINES

Apr 1982 — N/C

Published by Alberta Environment

A TRACE ELEMENT EMISSION STUDY AT SELECTED SOUR GAS PLANT INCINERATOR STACKS IN THE PROVINCE OF ALBERTA

Jun 1983 — N/C

Published by The Industrial Research Institute
of the University of Windsor, Ontario

Deals with the scientific methodology and results of a survey for the emission of twenty-nine trace elements from sour gas plant incinerator stacks. It is issued in three (3) volumes.

Discusses: Volume 1 - Strachan (Gulf Canada Resources Inc.)
Ram River (Canterra Energy Ltd.)
Jumping Pound (Shell Canada Resources Ltd.)

Volume 2 - Waterton (Shell Canada Resources Ltd.)
Pincher Creek (formerly Gulf Canada Resources Inc.)

May 1987

Volume 3 - Harmattan (formerly Canadian Superior Oil Ltd., now Mobil Oil Canada, Ltd.)
Nevis (Gulf Canada Corp.)
Gold Creek (Petro-Canada Inc.)
Rainbow Lake (Canterra Energy Ltd.)
Quirk Creek (Esso Resources Canada Ltd.)

- addendum report - Quirk Creek

FINAL REPORT SAGE PINCHER CREEK HEALTH STUDY

Jun 1983 — N/C

Published by Sage Institute, Edmonton, Alberta

A four-volume analysis of factors associated with the health of residents in the Pincher Creek/Twin Butte areas of southern Alberta.

Volume 1 available; Volumes 2, 3, and 4 are for viewing only.

SAFE PROCEDURES FOR PIPELINE & UTILITY CROSSINGS

Dec 1985
Two formats available: - 8 1/2" x 11" — $ 10
- pocket size — $ 10

Published by Edmonton Area Pipeline and Utility Operators Committee.

An industry-generated office guide or field handbook for engineers, owners, operators, contractors, and inspectors for planning and executing construction near existing pipelines and underground cables.

NON-ERCB REPORTS

A TRACE ELEMENT STUDY OF PROCESS STREAMS WITH POTENTIAL DISCHARGE TO FLARE STACKS AT SELECTED SOUR GAS PLANTS IN THE PROVINCE OF ALBERTA

May 1987 N/C

Published by the Industrial Research Institute of the University of Windsor, Ontario

Deals with the scientific methodology and results of a trace element survey of process lines in sour gas plants from which discharge to flare stacks might occur.

Discusses the results of the surveys at Waterton (Shell Canada Resources Ltd.); Pincher Creek (formerly Gulf Canada Resources Inc.).

MAPS

ERCB MAPS

Types of Maps

The Board makes available a selection of maps related to energy and energy resource development in Alberta.

Construction and Topographic Information

The polyconic projection method of construction is employed wherever possible. Topographic information is obtained from planimetric maps issued by the Department of Energy and Natural Resources, Province of Alberta.

Special Requests

Maps are usually issued as blueline prints. Sepia prints are available upon special request at five times the blueline cost, plus handling.

How to Order

Include:

- your company name, address and telephone number
- your personal name as authorization
- name of map, scale, and price
- number of prints
- cheque, money order, or current ERCB account number
- if to be mailed or picked up

Calgary customers: please pick up orders from the Maps and Publications desk.

Order From

Maps and Publications
Energy Resources Conservation Board
640 5 Avenue SW
Calgary, Alberta
T2P 3G4
Telephone 297-8328

Terms of Payment

Enclose cheque or money order in Canadian funds payable to the Energy Resources Conservation Board.

Purchase orders, with your current ERCB account number, are also accepted.

Postage and Handling

All orders mailed or shipped are charged for postage and handling. All orders are sent airmail.

Canada and U.S.A.: add 20% to cost of order.
Overseas: add 30% to cost of order.

OIL, GAS AND PIPELINE MAPS

			Scale	Size cm	Price each
DESIGNATED OIL AND GAS FIELDS AND OIL SAND DEPOSITS, MAIN PIPELINES, REFINERIES AND GAS PROCESSING PLANTS[e]			20 miles/inch[a]	66x106	$ 15[d]
			40 miles/inch	33x53	$ 10[d]
ERCB-90					
colour	Dec 31				
ALBERTA GAS STRIKE AREAS			1:750 000	110x170	$ 15
ERCB-94					
blueline	Updated annually				
Includes alphabetical index of all current strike areas, official abbreviations, and their locations. Map shows Board's official area designations.					
MAIN HIGH VAPOUR PRESSURE PIPELINES IN ALBERTA[e]			1:750 000	107x173	$ 15
ERCB-95					
blueline	Updated annually				
OIL AND GAS FIELDS AND MAIN PIPELINES IN ALBERTA[e]	$155[b]	$195[c]	1:750 000	107x170	$ 15
ERCB-91	Updated monthly				
blueline					
MAIN GAS PIPELINES IN ALBERTA[e]	$155[b]	$195[c]	1:750 000	107x170	$ 15
ERCB-92	Updated monthly				
blueline					
PRODUCTION FACILITIES WEST EDMONTON AREA			1:10 000	71x120	$ 10
ERCB-89					
blueline	Updated annually				

---

[a] Included in "Alberta's Reserves of Crude Oil, Oil-Sands, Gas, Natural Gas Liquids and Sulphur", ERCB ST-18.

[b] Annual subscription - pick up.

[c] Annual subscription - mailed.

[d] Includes attachment showing location of Alberta gas fields, gas strike areas, and oilfields.

[e] For related material, see Pipelines, page 65.

OIL, GAS AND PIPELINE MAPS

	Scale	Size cm	Price each
MAIN PIPELINES - EDMONTON AREA[e]	1:40 000	122x103	$ 15

ERCB-93

blueline — Updated annually as required

Also available from: The City of Edmonton
Engineering Dept.
Supervisor Drafting
12th Flr., Century Place
9803 102A Avenue
Edmonton, Alberta
T5J 3A3
Telephone 428-2856

PIPELINES MAP

ERCB-88

Township, Quarter Township, and Section

microfiche copy — per township — $10

TABLE OF FORMATIONS, ALBERTA

		Size cm	Price each
blueline	Dec 1985	56x87	$ 10
small print	Dec 1985	28x43	$ 6

[e] For related material, see Pipelines, page 65.

COAL MAPS

		Scale	Size cm	Price each
COAL IN ALBERTA, SOUTH HALF AND NORTH HALF		Fig 1A & Fig 1B[a]		
ERCB-87				
colour	31 Dec	1:750 000	64x96	$ 15 per set
colour	31 Dec	1:750 000	64x96	
MAJOR COAL-BEARING FORMATIONS IN ALBERTA		Fig 2A[a]		
ERCB-86				
colour	Dec 1983	1:2 500 000	28x41	$ 10
COAL MINES AND POTENTIAL COAL DEVELOPMENT AREAS				
ERCB-85				
blueline	Updated annually	1:750 000	107x125	$ 15
COAL DRILLHOLE LOCATIONS				
ERCB-84				
blueline	Oct 1986	1:750 000	107x160	$ 15

[a] Indicates figure number in "Reserves of Coal, Province of Alberta", ERCB ST-31.

ELECTRICITY MAPS

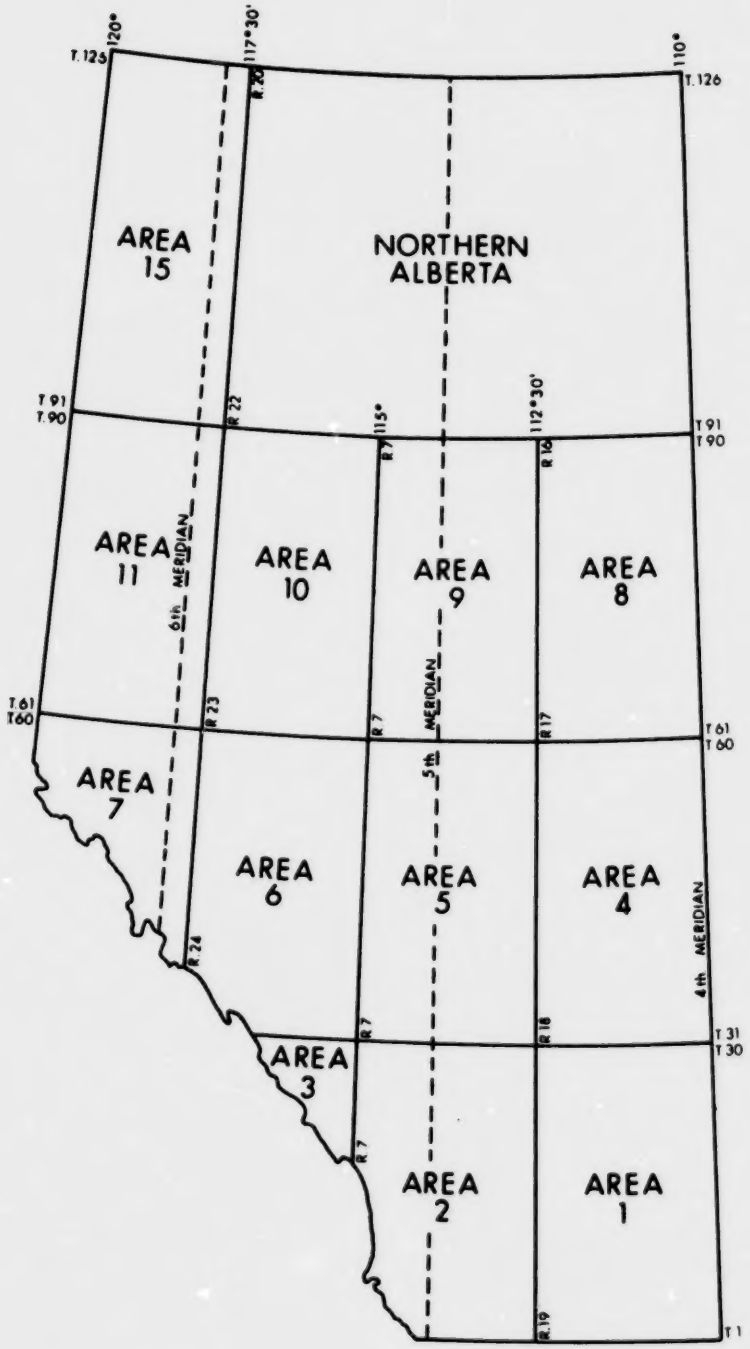
	Scale	Size cm	Price each
ALBERTA ELECTRIC SYSTEM, ELECTRIC TRANSMISSION LINES, ELECTRIC GENERATING STATIONS AND UTILITY SERVICE AREAS[a]	1:1 500 000	58x92	$ 15
colour Jan			
ALBERTA ELECTRIC SYSTEM, 1988 EDMONTON, RED DEER AND CALGARY AREAS[a]	1:250 000	58x80	$ 15
colour Jan			

MISCELLANEOUS MAPS

	Size cm	Price each
CALCULATING SUBSURFACE PRESSURE VIA FLUID-LEVEL RECORDERS	66x94	$ 15
Three blueline charts (each chart $15) for estimating the pressure exerted by oil and gas columns		
RURAL GAS UTILITY FRANCHISE AREAS		
Published by Alberta Utilities and Telecommunications (U&T)		
colour Apr 1984	54x87	$ 15

[a] See "Alberta Electric Industry, Annual Statistics", ERCB ST-28.

INDEX OF AREAS FOR ALBERTA GEOLOGICAL MAPS



GEOLOGICAL MAPS

Note: For areas specified, see index map opposite.

STRUCTURE OF THE BASE OF FISH SCALE HORIZON

Upper Cretaceous - Lower Cretaceous contact

blueline prints

	Date[a]	Scale	Size cm	Price each
Entire Province	Jul 1965	1:1 000 000	140x84	$ 20
Area 1	Jun 1976	1:250 000	137x78	$ 20
Area 2	Aug 1969	1:250 000	137x78	$ 20
Area 4	Aug 1969	1:250 000	137x78	$ 20
Area 5	Aug 1969	1:250 000	137x78	$ 20
Area 6	Jun 1976	1:250 000	137x78	$ 20
Area 8	Aug 1969	1:250 000	137x78	$ 20
Area 9	Aug 1969	1:250 000	137x78	$ 20
Area 10	Aug 1969	1:250 000	137x78	$ 20
Area 11	Aug 1969	1:250 000	137x78	$ 20
Area 15	Aug 1969	1:250 000	137x78	$ 20
Northern Alberta north of twp 90	Sep 1975	1:500 000	97x76	$ 20

PALEOZOIC SURFACE MAPS

blueline prints

	Date[a]	Scale	Size cm	Price each
Area 1	Feb 1975	1:250 000	137x74	$ 20
Area 2	Jun 1978	1:250 000	137x66	$ 20
Area 4	Jul 1977	1:250 000	137x74	$ 20
Area 5	Jan 1976	1:250 000	137x74	$ 20
Area 6	Jun 1978	1:250 000	137x66	$ 20
Area 8	Mar 1977	1:250 000	137x66	$ 20
Area 9	Feb 1978	1:250 000	137x66	$ 20
Area 10	Oct 1977	1:250 000	137x66	$ 20
Area 11	Mar 1977	1:250 000	137x66	$ 20
Area 15	Mar 1973	1:250 000	157x74	$ 20
Northern Alberta north of twp 90	Jul 1978	1:500 000	91x97	$ 20

[a] Indicates date of publication; information on maps is current to approximately one year prior to publication; information confidential at date of publication is not included.

SERVICES

ERCB SERVICES

Types of Services Available

Oil, gas, pipeline, coal, and hydro and electric records and documents at the Records Centre.

Core and drill cuttings samples at the Core Research Centre.

Oil and gas well data, coal hole logs and pipeline plats on microfilm subscription.

Oil, gas, oil sands and coal data on CRT at the Records Centre. For those who wish to use the on-line facility, the following retrieval charges apply:

- terminal connect charge	$ 14	($10 minimum per session)
- data retrieval charge	$ .05	per screen viewed
- print charge	$ .05	per screen copied

A selection of computer-processable data files.

Update services for files are available on subscription.

Confidentiality

In general, only non-confidential material is available. Letter of release from the licensee is accepted for confidential material at Core Research Centre and Records Centre.

Prices

Services are provided on a non-profit basis; Records Centre prices are composed of a retrieval fee per file, plus reproduction costs. Other services are provided at fixed prices, as listed. Certain projects in the Records Centre may require clerical charges, at $15 per hour.

Additional Prices

There is a $10 minimum fee per order for all charged purchases. The catalogue price will be in effect for all cash purchases.

Terms of Payment

Quote or enclose current ERCB account number, money order or cheque in Canadian funds, payable to the Energy Resources Conservation Board. Purchase orders, with your current ERCB account number are also accepted.

Customers who are unable to quote their current ERCB account number must pay cash at the Records Centre when the order is picked up. All accounts are invoiced monthly.

Hours of Service

Records Centre: weekdays 8:00 am to 12:00 noon and 1:00 pm to 4:30 pm
From 12:00 noon to 1:00 pm service is limited to placement and pick up of orders only.

Core Research Centre: weekdays 8:00 am to 4:30 pm.

Postage and Handling

All orders mailed or shipped are charged for postage and handling. All orders are sent airmail.

Canada and U.S.A.: add 20% to cost of order.
Overseas: add 30% to cost of order.

Order From

Records Centre
Telephone 297-8190

INFORMATION SERVICES - RECORDS CENTRE

Analyses and Tests

Request by unique identifier (well location).

- Core analyses

Conventional Wells

Individual well:	$ 5/well
Plus copies (paper/diazo):	.50/pg or diazo
Complete sets are available only on diazo	$12 500
Updating service for complete sets: Annual subscription monthly (ERCB ST-98)	$ 450
Computer Tape - Core Analysis File	$20 000

Basic non-interpretative data for approximately 33 000 non-confidential analyses; oil sands analysis may be included; data may be retrieved on the basis of field/pool, oil sands area/deposit, rectangular geographical areas designated by legal descriptions of north-west and south-east corners; new file format with data originating from the Board's Data Base.

Updating service for computer tapes:
Annual subscription for full file update (ERCB ST-61)

- Monthly	$ 3 000/yr
- Quarterly	2 000/yr
- Semi-annually	1 800/yr
- Annually	1 700/yr
Retrieval service	$ .65/CPA-ID
Minimum retrieval charge	$ 300

Oil Sands Evaluation Wells

Individual wells:	$ 5/well
Plus copies (paper only):	.50/pg

- Fluid Analyses - oil, gas, water

Conventional Wells

Individual well:	$ 5/well
Plus copies (paper/diazo):	.50/pg or diazo
Complete sets are available only on diazo with 2 indices (ERCB ST 88-6).	$ 950
Partial sets are available only on diazo including indices:	
- Oil	$ 165
- Gas	340
- Water	450
Updating service for complete or partial sets: Annual subscription issued monthly	$ 225

INFORMATION SERVICES - RECORDS CENTRE

Computer Tape - Individual Well Gas Analysis	$ 2 750
Gas analysis data by zone on some 18 000 non-confidential wells; compositional breakdown of gas, associated liquids and recombined analysis, test date, test source, and basic well information.	
Updating service for computer file Per copy	$ 275
Computer Tape - Pool Average Gas Analysis File	$ 2 750
Individual pool average gas analysis data on some 17 000 non-confidential pools; compositional breakdown of non-associated, associated, and solution gas, reserve type, pool status, remaining reserves, and basic pool information.	
Updating service for computer tape Per copy	$ 275
Both files	$ 3 300
Updating service for computer tape Per copy	$ 550
Oil Sands Evaluation Wells	
Individual wells: Plus copies (paper only):	$ 5/well .50/pg
- Drill Stem Tests (DST)	
Conventional Wells	
Individual well: Plus copies (paper/diazo):	$ 5/well .50/pg or diazo
Complete sets are available only on diazo	$15 000
Updating service for complete sets: Annual subscription issued weekly (ERCB ST-62)	$ 700
Oil Sands Evaluation Wells (Wireline tests)	
Individual wells: Plus copies (paper only):	$ 5/well .50/pg
- Absolute Open Flow Tests (AOF)	
Individual well: Plus copies (paper/diazo):	$ 5/well .50/pg or diazo
Complete sets are available only on diazo	$10 000
Updating service for complete sets: Annual subscription issued weekly (ERCB ST-63)	$ 2 300

Computer Tape - Gas Well AOFP/ Pressure File	$ 5 500
Absolute Open Flow Potential (AOFP) test and pressure test data collected on some 15 000 wells; includes basic well information as well as test date, pressures, temperatures, shut-in period, flow rate, flow duration, test type, and other information on individual tests; contains approximately 170 000 card-image records.	
Updating service for computer file (upon request) Per copy	$ 550
Computer Tape - Pool AOFP File	$ 2 750
Average pool AOFP on producing wells, shut-in wells and infill wells; N values of AOFP; number of producing wells, shut-in and infill wells; reserve type, field code, pool code, and pool sequences; contains approximately 18 000 card-image records.	
Updating service for computer file (upon request) Per copy	$ 275
Computer Tape - Subsurface Pressure Data File Per copy	$ 125
Non-confidential subsurface pressure data for oil wells for a calendar year; tabulated pressure data to establish datum depth of pool. See Subsurface Pressure Data, Quarterly Update, ERCB ST 88-9 (microfilm).	
- Bottom-Hole Pressure Surveys (Oil) - Gas Well Pressure Surveys (data sheets) - Production Tests - Pressure-Volume-Temperature Studies (PVT) - Reservoir Fluid Analyses - Wireline Tests Individual well for each type of data: Plus copies (paper only):	$ 5/well .50/pg

INFORMATION SERVICES - RECORDS CENTRE

Applications to the Board

Request by application number.

- the application
- submissions and/or interventions
- notice or notice of hearing
- exhibits from the hearing, if any
- approval or decision
- transcripts, if available (viewing only)

Individual application:	$	5/application
Plus copies (paper/diazo):		.50/pg or diazo

Note:
Prior to a hearing, copies of the application are to be obtained from the applicant. Transcripts of hearings are copyright and must be ordered from the court reporter firm attending the hearing.

Approvals

Request by number.

If less than 1 month old (paper only)		N/C
Individual approval over 1 month old:	$	5/document
Plus copies (paper/diazo):		.50/pg or diazo
Complete sets are available only on diazo	$	1 150
Updating service for complete sets: Annual subscription issued monthly (ERCB ST-64)	$	125

INFORMATION SERVICES - RECORDS CENTRE

Board Orders

Request by number (* by field/area).

If less than 1 mo. old (paper only)	N/C
Individual order over 1 month old:	$ 5/document
Plus copies (paper/diazo):	.50/pg or diazo

Complete sets are available only on diazo:

*CF	Coal Field Boundary	$ 26
CO	Local Interveners' Costs	40
*F	Field Boundary	430
FH	Fire Hazard	10
*G	Pool Boundary	490
GA	Gas Allowable	50
GB	Gas Bitumen	10
GC	Gas Conservation	26
GE	Gas Measurement Exemption	10
GTO	Geological Target Order	10
IW	Infill Wells	10
L	Leduc	10
LL	Lloydminster	10
MD	Market Demand	220
*MDS	Allowable Transfer	86
MH	Medicine Hat	58
MISC	Miscellaneous	72
MISC-HE	Miscellaneous Hydro & Electric	10
MISC-PL	Miscellaneous Pipeline	10
MU	Multi Unit (Commingled Production)	100
O	Operator	55
OSA	Oil Sands Area Boundary	10
OSD	Oil Sands Deposit Boundary	10
P	Pooling Tract	10
R	Redwater	10
*SU	Spacing Unit	196
TVU	Turner Valley Unit	10
W	Water Disposal	110

Updating service for all above orders for complete sets (Annual subscription issued monthly):

F	Field Boundary (ERCB ST-65)	86
G	Pool Boundary (ERCB ST-66)	333
MU	Multi Unit (Commingled Production) (ERCB ST-67)	18
MISC	Miscellaneous (ERCB ST-68)	24
SU	Spacing Unit (ERCB ST-69)	86
All Other	Orders - Specify Orders of interest (ERCB ST-70)	30

INFORMATION SERVICES - RECORDS CENTRE

Coal Exploration Drill Holes

- Permits & Licences - request by permit or licence number.

Individual permit or licence:	$	5/permit or licence
Plus copies:		.50/pg

- Lists - request by township and range.
Each hole is described by exploration company, section number and location within section, depth of hole, date of completion, and whether logs are available.

Individual township:	$	5/twp
Plus copies (paper only):		.50/pg

- Logs - request by unique identifier (hole location).
Includes drillers, geophysical and core descriptions. Available only when released from confidential status.

Individual hole:	$	5/hole
Plus copies (paper/diazo):		.50 pg or diazo 1.25/metre

- Computer Tape - Coal Hole Data File $ 4 500
(available in variable or fixed block format)

Coal hole identification, location and description data for approximately 40 000 drill holes in Alberta; non-confidential data only; includes coal hole identification, co-ordinates, ground elevation, drill date, company, logs run, deviation, outcrop, excavation and coal analysis data.

Updating service for computer tape:
Annual subscription for full file update (ERCB ST-71)

- Monthly	$ 1 500/yr
- Quarterly	500/yr
- Semi-annually	250/yr
- Annually	150/yr

- Computer Tape - Coal Code Conversion $ 150

Interpretation of coded data from the Board's Data Base; codes, names and abbreviations for such data as company name and address, coal rank and type, mining method etc; for the purpose of printing coal-related reports requiring translation of coded data.

Updating service for computer tape:
Annual subscription for full file update (ERCB ST-72)

- Monthly	$ 1 500/yr
- Quarterly	500/yr
- Semi-annually	250/yr
- Annually	150/yr

Coal Geology Reports

- Geological data on coal submitted to Alberta Department of Energy in connection with compensated mineral rights agreements is available for public viewing in the ERCB Library (2nd Level, 640 - 5 Avenue SW, Calgary, Alberta).

INFORMATION SERVICES - RECORDS CENTRE

Coal Mines

- Abandoned Mine Plans - request by mine number.

Individual mine:	$	5/mine
Plus copies (paper/diazo):		.50/pg or diazo

Information on operating mines is only available with written permission of the operating company.

- Computer Tape - Coal Mine File $ 550

Mine identification, location, production and coal analysis data for approximately 1700 mines in Alberta; non-confidential data only; sequenced in order of ascending mine location.

Updating service for computer tape: $ 150/yr
Annual subscription for full file update issued annually (ERCB ST-73)

Drilling Data

- Conventional wells - request by unique identifier.

- application for licence to drill, suspend or abandon a well
- well licence
- survey plat
- completion details
* - drilling details (elevation, status, etc)
- geological markers and tops of formations
o - logs
* - tour reports
- directional surveys

Individual well, for each type of data:	$	5/well
Plus copies (paper/diazo):		.50/pg or diazo
o Paper copy		1.25/metre
* Paper only		.50/pg

- Computer Tape - Drilling Well Data File
Annual subscription issued weekly $ 3 300
(ERCB ST-74)

Data on new drilling wells, wells being re-worked; well status changes; field-pool changes; corrections to previously reported data; basic, descriptive well data used to produce ERCB ST 88-2 "Alberta Drilling Progress and Pipeline Receipts, Weekly Report"; approximately 2000-5000 records.

- Computer Tape - General Well Data File $48 000

Basic drilling data for approximately 110 000 oil, gas, oil sands and water wells; includes such data as licensing, formation tops and markers, log, dst, casing and cementing, perforations and treatments, plug back and abandonment and well status history; data may be retrieved on the basis of field/pool, oil sands area/deposit, record type, rectangular geographical areas designated by legal descriptions of north-west and south-east corners and/or licensee code and finish drill date; data resident on the Board's data base; format supersedes the General Well Data Master File, Licensing Tape and the Oil Sands Well Data File.

Updating service for computer tape (ERCB ST-75)
Annual subscription issued:

- Monthly	$ 5 700/yr
- Quarterly	4 800/yr
- Semi-annually	4 600/yr
- Annually	4 100/yr

Retrieval service	$ .45/CPA-ID
Retrieval service per record type	.04/CPA-ID
Minimum retrieval charge	700

Subscription update service is available for a part-file selection by record type only, update price is based on the number of records selected and will be a fixed annual fee dependent on update frequency.

- Computer Tape - General Well Administration File $13 750

A subset of the General Well Data File which includes licensing, basic drilling and well status history data; data may be retrieved on the basis of field/pool, oil sands area/deposit, rectangular geographical areas designated by legal descriptions of north-west and south-east corners and/or licensee code and finish-drill-date; approximately 110 000 wells.

Updating service for computer tape (ERCB ST-76)
Annual subscription issued:

- Monthly	$ 2 250/yr
- Quarterly	1 375/yr
- Semi-annually	1 150/yr
- Annually	1 050/yr

Retrieval service	$ .15/CPA-ID
Minimum retrieval charge	350

No subscription service available for part-file selection.

INFORMATION SERVICES - RECORDS CENTRE

- Computer Tape - Basic Well Code Conversion File — $ 150

  Interpretation of coded data from the Board's Data Base; code names and abbreviations for such data as field/pool, oil sands area/deposit, company name and address (for operators, licensees, agents, drilling contractors), area office; for the purpose of printing reports requiring the translation of coded data.

  Updating service for computer tape (ERCB ST-77)
  Annual subscription issued:

- Monthly	$ 1 500/yr
- Quarterly	500/yr
- Semi-annually	250/yr
- Annually	150/yr

- Computer Tape - List of Wells in Alberta (ERCB ST-37) — $ 150/copy

  Computer tape available on subscription (ERCB ST-82):

- Monthly	$ 1 500
- Quarterly	500
- Semi-annually	250
- Annually	150

  For all oil, gas, oil sands experimental and evaluation wells drilled; identifier, well name, field or oil sands area, pool or oil sands deposit, licence number, licence date, licensee and agent code, finish drill date; well total depth, current well status and status date; in order of ascending CPA-ID; available monthly, quarterly, semi-annually or annually.

- Oil Sands Evaluation Wells - request by unique identifier.

  - well and drilling details
  - logs

  Individual well for each type of data: $ 5/well
  Plus copies (paper only): .50/pg

Pipelines

- Permits and Licences - request by permit or licence number.

  PIPELINE CONSTRUCTION APPROVAL DISPOSITION REPORT, WEEKLY REPORT

ERCB ST-96	Annual subscription	$ 40
	Single copy	10

  Summary of all permits and licences issued for the previous week; permit number, permittee, substance code, pipeline from location, outside diameter and approval date.

INFORMATION SERVICES - RECORDS CENTRE

Individual permits or licences:	$	5/permit or licence
Plus copies (paper/diazo):		.50/pg or diazo

- Pipeline location plats (excludes low-pressure gas distribution lines) - request by township and range.

Individual township and range:	$	5/twp
Plus copies (paper or diazo):		.50/pg or diazo
Paper copy for use as base plan in permit or licence application:	$	1/pg
Complete sets are available only on diazo.	$	1 850
Updating service for complete sets: Annual subscription issued daily (ERCB ST-78)	$	2 000/yr

- Pipeline location plats - request by Co-op name.

Made available in conjunction with Alberta Transportation and Utilities. Shows gas co-op and county gas distribution systems. (Scale: 1:20 000)

Individual Co-ops:	$	5/Co-op
Plus copies (paper only):		.50/pg or diazo

- Low Pressure Pipeline Mapping Series

Made available in conjunction with Alberta Transportation and Utilities	$	100 complete set
		.50/pg or diazo

Shows general locations of all rural gas distribution pipelines licenced by Alberta Transportation and Utilities at up to 700 kPa. (Scale: 1:50 000)

- Computer Tape - Pipeline File $11 000

Complete file of information on pipeline permits and licences, tests, status, construction, and specifications; experimental pipelines not included; contains approximately 22 400 permits/ licences on one 1200-foot tape reel.

Retrieval service	$	1.50/permit or licence
Minimum retrieval charge		200

Retrieval may be requested by permit/licence number or operator.

INFORMATION SERVICES - RECORDS CENTRE

	Updating service for computer tape: Annual subscription issued quarterly (ERCB ST-79)	$ 1 100
	Updating service for retrieval service:	$ 1.50/permit or licence
	Minimum retrieval service	$ 200
Production - History or Current	- Well production - request by unique identifier.	
	Individual well production prior to 1962: Plus copies (paper/diazo):	$ 5/well .50/pg or diazo
	Individual well production 1962 to date: Plus copies (paper only):	$ 5/well .50/pg
	Complete set 1962 to date is available only on diazo (ERCB ST 88-8). Annual subscription issued monthly	$ 800
	Year-end only	$ 400
	- Computer Tape - Historical Well Production-Injection and Well Control Data Files (one copy of each file).	$ 8 000
	Historical file includes all production and injection data by month for all Alberta wells, 1962 to date. Adjustments have been applied retroactively. Control data is current; approximately 700 000 variable-length records.	
	Control data file includes selected control data (well name, field and pool codes interpretation, etc) for retrieval and print-out of well data from the Historical file; approximately 65 000 short records.	
	Updating service for computer tape: (Includes updated replacement copy of each file) (ERCB ST-80)	
	Annual subscription issued: - Monthly - Quarterly - Semi-annually - Annually	$ 3 300/yr 1 650/yr 1 300/yr 1 100/yr

- Pool production - request by field and pool.

Individual pool production 1962 to date:	$	5/pool
Plus copies (paper only):		.50/pg
Complete set 1962 to date is available only on diazo (ERCB ST 88-16).		
Annual subscription issued quarterly	$	200
Year-end only		140

- Computer Tape - Alberta Pool Production and Injection Well Count $ 150/copy

Well counts semi-annually by pool and type of well capable and operating wells. See Alberta Pool Production and Injection, Monthly Supplement, ERCB ST 88-16A.

- Computer Tape - Historical Pool Production - Injection File $ 2 500

Monthly totals and cumulative data for all producing and injecting pools since 1962.

Subscriptions for update service (ERCB ST-81) are available as follows:

- Monthly	$ 1	500/yr
- Quarterly		500/yr
- Semi-annually		250/yr
- Annually		150/yr

See Alberta Pool Production and Injection Record, ERCB ST 88-16.

Project Progress Reports

- Enhanced Oil Recovery - request by field, pool, project number and operator (not filed by unit number).

Reports submitted by operators of enhanced recovery schemes.

Individual projects:	$	5/project
Plus copies (paper/diazo):		.50/pg or diazo

- Oil Sands Schemes - request by operator and approval number.

Reports submitted by operators of oil sands schemes.

Individual schemes:	$	5/scheme
Plus copies (paper only):		.50/pg

INFORMATION SERVICES - RECORDS CENTRE

Reserves

- Request by field and company.

Submissions to the Board on provincial reserves of oil and gas.

Individual submissions:	$ 5/field
Plus copies (paper only):	.50/pg

- Computer Tape - Gas Pool Reserves File — $ 800/copy

Basic reservoir parameters and total reserves of all non-confidential gas pools in the province; separate records for each pool; approximately 17 000 pools; used primarily for "Established Reserves of Gas and Appropriate Basic Data", published as part of ERCB ST 88-18, "Alberta's Reserves of Crude Oil, Oil Sands, Gas, Natural Gas Liquids and Sulphur", and for "Alberta's Reserves of Gas", ERCB ST 88-35; updated file created annually in the second quarter.

- Computer Tape - Gas Reserves Code Conversion File (GRSDELETE) — $ 225/copy

File allows updating of previous year-end field and pool codes to current year-end field and pool codes, old field and pool codes, new field and pool codes; contains approximately 1300 records. See also Gas Pool Reserves File.

- Computer Tape - Oil Pool Reserves File — $ 350/copy

Basic reservoir parameters and total reserves of all significant crude oil pools in the province; records for each oil pool or each mechanism in the pool; approximately 3400 records on one 600-foot tape reel; used in tabulation of "Proved Reserves of Crude Oil and Approximate Basic Data" in ERCB ST 88-18, "Alberta's Reserves of Crude Oil, Oil Sands, Gas, Natural Gas Liquids and Sulphur"; updated file created annually in the second quarter.

Unit Agreements

- Request by unit name.

Individual unit:	$ 5/unit
Plus copies (paper only):	.50/pg

Available for conventional wells drilled for oil and gas, for oil sands evaluation wells, and for coal exploration drill holes; order by well location.

CORE RESEARCH CENTRE SERVICES

Cores
Drill Cuttings
Tour Reports

Research examination facilities available at the Core Research Centre.

Drill Cuttings and Daily Drilling Report (Tour) Research

- semi-private cubicles with equipment locker

Core Research

- core table and microscope table in the general core research areas
- core table and microscope table in a confidential room
- confidential conference room with a core table, microscope table, and conference table with chairs.

Meetings and Seminars

- seminar room with tables and seating for up to 20 persons, equipped with blackout curtains and visual aid equipment.

Services Provided

- delivery and removal of core, drill cuttings, samples, and tour reports for the facilities provided and for off-premises core analysis etc.
- photocopy service
- core sample cutting, plug drilling and core slabbing services.

Rental Equipment Available

- equipment storage lockers
- microscopes and lamps
- fluoroscope
- 35 mm camera and lights

Drill Cuttings Collection Bags

Available for purchase.

The subsisting fee schedule is posted in the Core Research Centre and a list of the services available and associated fees is available from the Centre.

Facilities and Services Available at

Core Research Centre
3545 Research Way NW
Calgary, Alberta
T2L 1Y7
Telephone 284-4561

Open weekdays
8:00 am to 4:30 pm

COMPUTER SERVICES

ERCB COMPUTER SERVICES

Services Offered

The ERCB provides on-line access to drilling data via CRT terminals in Information Services. For those wishing to use the on-line facility, the following retrieval charges apply:

- terminal connect charge of $14 ($10 minimum per session)
- data retrieval charge ($ .05 per screen viewed)
- print charge ($ .05 per screen copied)

The ERCB makes available for sale a selection of computer-processable data files. Updating services for files are available on subscription, as listed. Some programs are also available; two are published in this edition. For other programs available, contact the Board's Data Processing Department.

Retrieval and Format

Data retrieval for selected files is available to purchasers on a limited-record, field-pool, or geographical-area basis. Format of data records is limited to that already established, as indicated in File Descriptions.

Rights

- The ERCB retains the proprietary rights on all data sold.
- Purchasers of ERCB data files are permitted to use the files to select and process data for internal or client use and to release copies of small portions of the files on computer media, that result from specialized retrievals, to their clients; copying of a complete file or a large portion of a file for resale is not permitted.
- Arrangements may be made to obtain an initial copy and/or an update service for a full ERCB file or a substantial portion of an ERCB file from another purchaser, provided an authorization is received from the ERCB prior to the data transfer. The subsequent purchaser must apply to the ERCB for the authorization and must name the supplier in the application. The ERCB fee for granting the authorization will be based on a 75% of the current rate for the file that may be obtained directly from the ERCB.

Confidentiality

All files and programs for sale are processed to delete confidential data. As the data is released from confidential status, it is made available to purchasers of the update services.

Disclaimer

- The ERCB makes no representation, warranties or guarantees, expressed or implied, for the fitness of the data files with respect to intended use.

- The ERCB accepts no responsibility whatsoever for any inaccuracy, errors, or omissions in the data files.
- The ERCB shall not be responsible for any costs incurred by a company for the conversion, installation, or improvement of the data files.
- The ERCB does not guarantee the continuing availability of any data or the consistency of the transfer record format.

Terms of Payment

Customers with established accounts: authorized purchase order with current ERCB account number should accompany order; payment due within 30 days of invoice date.

Customers without established accounts: full payment in the form of a cheque or bank draft payable to the Energy Resources Conservation Board should accompany the order.

Customers without established accounts may apply for an account through the ERCB Financial Accounting Department.

In certain cases, such as the purchase of the larger data files, the terms may be negotiable.

Transferral

Data available on magnetic tape; magnetic tape reels are provided by the ERCB and must be returned promptly after processing; standard format is as illustrated in file description; conversion to other than standard format is the responsibility of the purchaser.

Tape File Specifications

- 9-track EBCDIC code
- 1600 or 6250 bytes per inch
- labelled with IBM standard labels
- blocking factor and logical record lengths vary with each file

Documentation

Supplied with purchase; includes detailed description of record layout and data mode; if file is complex, may also include description of source data, limitations, editing during file creation and maintenance, and other appropriate documentation.

File Formats

Detailed file formats are available from:

Records Centre
Energy Resources Conservation Board
640 5 Avenue SW
Calgary, Alberta
T2P 3G4
Telephone 297-7041

ERCB COMPUTER SERVICES

Updating Services

Updating Services for purchasers of the ERCB data files will be charged the current updating fee for that file, provided the file has been kept up to date.

Contacts

For information on files, programs, policy, or to discuss a potential purchase, please contact:

Information Services
Telephone 297-7041

Energy Resources Conservation Board
640 5 Avenue SW
Calgary, Alberta
T2P 3G4

COMPUTER FILES

Title	PG
Gas Pool Reserves File	68
Gas Reserves Code Conversion File (GRSDELETE)	68
Oil Pool Reserves File	68
Drilling Well Data File	62
Pipeline File	65
Historical Well Production - Injection and Well Control Data Files	66
Gas Well AOFP/Pressure File	58
List of Wells in Alberta	64
General Well Data File	63
General Well Administration File	63
Basic Well Code Conversion File	64
Core Analysis File	56
Coal Mine File	62
Coal Hole Data File	61
Coal Code Conversion File	61
Individual Well Gas Analysis File	57
Pool Average Gas Analysis File	57
Alberta Pool Production and Injection Well Count	67
Subsurface Pressure Data File	58
Historical Pool Production - Injection File	67
Pool AOFP File	58
Pool to Plant Pointer File	75
Gas Purchasers File	75
Lands Under Contract File	75
Gas Energy Data System (GEDS) Data Base File	75
Schedule of Wells Drilled for Oil and Gas in Alberta	12

COMPUTER FILES

LANDS UNDER CONTRACT FILE

File Description	A quarter section breakdown of the lands and specific zones under contract to individual purchasers, contract percentages, locations, designated zones or reserve types; contains some 150 000 card-image records.	
Initial Purchase		$ 2 750
Update Service		$ 275

GAS ENERGY DATA SYSTEM (GEDS) DATA BASE FILE

File Description	GEMM Model compatible data base contains information on approximately 1100 fields and some 17 000 non-confidential pools. Information includes fields data, pool description, reserve location, basic reserve data, contract information, plant data, gas analyses, deliverability test data, number of wells by pool, historical production figures, and pertinent comments. Contains some 140 000 card-image records.	
Initial Purchase		$30 000
Annual Update	Per copy	$10 000

POOL TO PLANT POINTER FILE

File Description	Percentage of pool production flowing to a plant, plant code, reserve type, field code, pool code and pool sequence; contains approximately 19 000 card-image records.	
Initial Purchase		$ 2 750
Update Service		$ 275

GAS PURCHASERS FILE

File Description	The percentage reserve ownership of buyers on a pool by pool basis, reserve type, field code, pool code, sequence code, and buyer code; contains approximately 18 000 card-image records.	
Initial Purchase		$ 2 750
Update Service		$ 275

INDEX OF PUBLICATIONS BY RESOURCE[1]

Energy Resources - General[2]

Pub No.		pg
-	Acts and Regulations	7
-	Environmental Impact Assessment Guidelines	42
-	Interim Guidelines Historical Resources Impact Assessments	43
-	Pigeon Lake Community Study Results	21
-	The Land Conservation and Reclamation Council (LCRC)	43
ST-3	Alberta Energy Resource Industries, Monthly Statistics	9
-12	Report of the Operations of the Oil and Gas Conservation Board	11
ST-32	Alberta's Energy Resources, A Summary	17
-40	Energy Alberta	19
-42	Numbered Decision Reports	19
G-1	Publications, Maps and Services Catalogue	22
G-16	The ERCB Public Hearing Process	25
G-29	Public Guide to Procedure at Board Hearings	27
G-34	Guidelines for Automated Measurement System Applications	27
86-A	Energy Requirements in Alberta 1986-2010	29

Coal

-	Acts and Regulations	7
ST-26	Alberta Coal Industry, Monthly Statistics	15
ST-29	Alberta Coal Industry, Annual Statistics	16
ST-31	Reserves of Coal, Province of Alberta	16
85-45	Coal Mine Atlas	20
G-2	How to Apply for Government Approval of Coal Projects in Alberta	22
G-28	Thermal Power Plant Applications to the ERCB A Guide to Content	26
D 86-18	Fording Coal Limited...Cassils Railway Siding...	34

Gas Only (See also Oil and Gas)

-	A Trace Element Emission Study at Selected Sour Gas Plant Incinerator Stacks in the Province of Alberta	44

---

1 See Subject Index for a more detailed subject breakdown.

2 Refers to all non-renewable resources and electric energy resources under the jurisdiction of the ERCB.

INDEX OF PUBLICATIONS BY RESOURCE[1]

Pub No.		pg
Gas Only continued		
-	Sage Pincher Creek Health Study	44
-	Stack Sampling Code	43
-	Gas Processing Plants Waste Water Management Standards	42
ST-11	Reservoir Performance Charts, Gas Pools	11
ST-13A	Alberta Gas Plant Statistics to December 31	11
ST-13B	Alberta Gas Plant Statistics, Monthly Supplement	11
-23	Acid Gas Content of Alberta Natural Gases	14
-25	Helium and Hydrogen Survey	15
ST-35	Alberta's Reserves of Gas, Complete Listing	17
ST-48	Alberta Gas Removal and Related Applications Monthly Bulletin	20
G-3	Gas Well Testing, Theory and Practice	22
G-4	Determining Water Production at Gas Wells	22
G-25	Industrial Development Permit Applications to the ERCB - A Guide to Content	26
G-26	Sour-Gas Processing Plant Applications to the ERCB - A Guide to Content	26
G-28	Thermal Power Plant Applications to the ERCB A Guide to Content	26
G-32	Common Gas Purchaser and Related Matters: Board Policy and Views	27
86-AA	Sulphur Recovery at Alberta Gas Plants Phase I... Task Force Report	29
87-A	Gas Supply Protection for Alberta: Policies and Procedures	35
-	Memorandum of Decision...Chevron...Gas Processing... Kaybob South	34
-	Memorandum of Hearing...Dome Petroleum...North Coleman Gas Block No. 1	35
-	Memorandum of Decision...Canadian Occidental & Petrogas Processing...Hearing Date and Procedures ...Northeast Calgary Area	40
D 86-1	SOQUIP...Amend Gas Removal Permit	30
D 86-2	Shell Canada Limited...Critical Sour Well...Jutland Area	30
D 86-3	Hewitt Oil (Alberta) Ltd....Gas Processing Plant... Golden Spike Area	30
D 86-7	Shell Canada Limited Application for Gas Removal Permit	31
D 86-14	Gulf Canada Corporation Compulsory Pooling Chedderville Area	33

INDEX OF PUBLICATIONS BY RESOURCE[1]

Pub No.		pg
Gas Only Continued		
D 86-16	Chevron Canada Resources Limited Increased Ethane Recovery Kaybob South Gas Processing Plant	33
D 86-17	Northwestern Utilities Limited Application for a Well Licence Hercules Field	33
D 86-19	PSR Gas Ventures for Gas Removal Permit	34
D 86-20	Westburne Petroleum Compulsory Pooling Long Coulee Field	34
D 87-5	G.N.E. Resources Reduced Well Spacing Prevo Area	36
D 87-6	Sulpetro Elmworth Gas Processing Plant Ethane Recovery Efficiency	37
D 87-7	Dome Petroleum, Petro-Canada and Amoco...Gas Cycling...Brazeau River Nisku P Pool	37
D 87-8	Shell Canada Bearberry Demonstration Project	37
D 87-9	Norcen Sour Gas Processing Plant Campbell-Namao Field	37
D 87-16	Shell Canada Well Licence Applications...Critical Sour Gas Wells...Waterton/Prairie Bluff Area	40
D 87-18	Union Pacific Gas Well Spacing Ferrybank Area	40
Hydroelectric and Electric Energy		
ST-27	Alberta Electric Industry, Monthly Statistics	15
ST-28	Alberta Electric Industry, Annual Statistics	15
G-17-1	Transmission Lines and The Regulatory Process in Alberta	25
G-22	Guidelines Respecting An Application to Construct or Alter an Electric Transmission Line	26
-	Memorandum of Decision...Small Power Inquiry... Planning Meeting	41
-	Memorandum of Decision...Small Power Inquiry... Pre-Hearing Conference	41
D 86-9	TransAlta Utilities Corporation Cascade Hydro Department Modifications	32
D 87-12	Alberta Power 240-kV Transmission Line Re-Route Star Area	38
D 87-14	Alberta Power Alberta-Saskatchewan Interconnection Empress Area	39
Oil Only (See also Oil and Gas)		
-	Guidelines on the Use and Acceptability of Oil Spill Dispersants	43
ST-9	Subsurface Pressure Data, Quarterly Update	10

INDEX OF PUBLICATIONS BY RESOURCE[1]

Pub No.		pg
Oil Only Continued		
ST-10	Reservoir Performance Charts, Oil Pools	11
-22	Pressure-depth and Temperature-depth Relationships Alberta Crude Oil Pools	14
ST-24	Oil Allocation Data	14
D 86-8	Diamond Shamrock Exploration...Well Licence... Pembina Field	31
D 86-13	Gulf Canada Corporation...Well Licence...St. Albert-Big Lake Field	32
D 87-10	Chevron Canada...Waterflood...Mitsue Gilwood A Pool	38
Oil and Gas (See also Oil; Gas; Energy Resources)		
-	G Order (Pool) Boundaries	21
ST-2	Alberta Drilling Progress and Pipeline Receipts, Weekly Report	9
ST-5	PSU, Block, and Project Approvals, Monthly Update	9
ST-6	Fluid Analyses	10
ST-7	Oil and Gas Units, Quarterly Update	10
ST-8	Alberta Well Production and Injection Record	10
ST-14	Schedule of Wells Drilled for Oil and Gas in Alberta	12
ST-15	Alberta Oil and Gas Conservation Schemes	12
ST-16	Alberta Pool Production and Injection Record	13
ST-16A	Alberta Pool Production and Injection, Monthly Supplement	13
ST-17	Alberta Oil & Gas Industry, Annual Statistics	13
ST-18	Alberta's Reserves of Crude Oil, Oil Sands, Gas, Natural Gas Liquids, and Sulphur	14
-33	A Graphical Summary of the Ultimate and Proved Recoverable Reserves of Gas, Ethane, Propane, Butanes and Conventional Crude Oil and Pentanes Plus, and their Relationship to Alberta's Requirements	17
ST-37	List of Wells in Alberta	18
ST-46	Oil and Gas Well Blowout Report Events of 1985	20
ST-49	Spud Information Daily List	20
G-5	Calculating Subsurface Pressure via Fluid-Level Recorders	23
G-6	Index of Board Orders, Monthly Update	23
G-7	Production Accounting Handbook	23
G-8	Surface Casing Minimum Requirements and Exemptions	23
G-9	Casing Cementing Minimum Requirements	23

INDEX OF PUBLICATIONS BY RESOURCE[1]

Pub No.		pg
Oil and Gas Continued		
G-10	Guide to Minimum Casing Design Requirements	24
G-11	Minimum Requirements for Blowout Prevention Equipment	24
G-12	Planning, Conducting, and Reporting Subsurface Pressure Tests	24
G-14	PVT and Special Core Studies Index	24
G-15	Effect of Tensile Loading on Casing Collapse	24
G-17-2	Well-Site Selection and the Surface Owner	25
G-18	FSBERRSI Revised Computer Program to Calculate Error in Proration-Battery Measurement of Well and Pool Production	25
G-33	Application for a Well Licence Instruction for Completion of Form ED-1	27
G-34	Guidelines for Automated Measurement System Applications	27
IG-11	Rig Inspection Manual	28
D 86-4	Atlas Yellowknife Resources Ltd....Gas Processing Plant and Oil Battery Pigeon Lake	30
D 86-11	Norcen Energy Resources Limited Solution Gas Processing Plant and Central Oil Battery Spirit River Field	32
D 86-12	High Level Energy Well Licence Leduc-Woodbend Field	32
D 87-2	Tumit Petroleums Well Licence Acheson East Field	36
D 87-3	Diamond Shamrock Well Licence Pembina Field	36
D 87-4	Corexcal Inc. Well Licence West Drumheller Area	36
D 87-11	PanCanadian Petroleum Well Licence Medicine Hat Field	38
Oil Sands		
-	Oil Sands Bitumen Extraction Process Evaluation	43
ST-30A	Oil Sands Well Data, Recent	16
ST-30B	Oil Sands Well Data, Historical	16
ST-38	Atlas of Alberta's Crude Bitumen Reserves	18
ST-39	Alberta Oil Sands Plant Statistics, Monthly Supplement	18
ST-43	Alberta Oil Sands Annual Statistics	19
ST-44	Alberta Approved Projects, Monthly Supplement	19
G-23	Guidelines Respecting an Application for a Commercial Crude Bitumen Recovery and Upgrading Project	26
D 86-6	Esso Resources Canada Limited Cold Lake Production Project Phases 7 to 10	31
D 86-10	PanCanadian Petroleum Limited Commercial Oil Sands Project Lindbergh and Frog Lake Sectors	32

INDEX OF PUBLICATIONS BY RESOURCE[1]

Pub No.		pg
Pipeline		
-	CSA Standards, Pipelines and Piping	42
-	Information Requirements for Regulated Pipelines	44
G-13	Pipeline Information System User's Manual	24
G-17-3	Pipeline and Surface Rights A Guide for Landowners and Occupants	25
G-24	Pipeline Applications to the ERCB - A Guide to Content	26
G-30	Careless Construction Near Pipelines Can Cause Accidents	27
-	Memorandum of Decision...Canadian Occidental and Petrogas Processing...Hearing Date and Procedures ...Northeast Calgary Area	40
D 86-5	Alberta Energy Company Ltd....Construct Pipelines	31
D 86-15	Town of Okotoks Pursuant to Section 34 of the Pipeline Act	33
D 87-1	Novacorp Pipelines...Construct Pipelines for Condensate and Butane	35
D 87-8	Shell Canada Bearberry Demonstration Project	37
D 87-13	Federated Pipe Lines...Construct Pipeline for High Vapour Pressure Product	38
D 87-15	Peace Pipe Line Pipeline Construction at Road Crossings County of Lac Ste. Anne	39
D 87-17	Gulf Canada...Construct Pipelines Caroline Area	40

COMPANY INDEX

PG

A

Alberta Energy Company Ltd.
water, ammonia, nitrogen pipelines - D 86-5 31
Alberta Power Limited
transmission line - D 87-12 38
converter station - D 87-14 39
Amoco Canada Petroleum Company Ltd.
gas cycling - D 87-7 37
Atlas Yellowknife Resources Ltd.
gas processing plant - D 86-4 30

B,C

Canadian Occidental Petroleum Ltd.
memorandum of decision - hearing date and procedures (Northeast Calgary) 40
Canadian Standards Association
CSA Standards - pipelines 42
Chevron Canada Resources Limited
ethane recovery - D 86-16 33
gas processing - memo of decision 34
well conversion - D 87-10 38
Corexcal, Inc.
well licence application - D 87-4 36

D

Diamond Shamrock Exploration of Canada, Ltd.
well licence - D 86-8 31
well licence application - D 87-3 36
Dome Petroleum Limited
gas cycling - D 87-7 37
memorandum of hearing - block order 35

E

Esso Resources Canada Limited
oil sands application - D 86-6 (Cold Lake) 31

F

Federated Pipe Lines Ltd.
pipeline construction - D 87-13 38
Fording Coal Limited
Cassils railway siding - D 86-18 34

G

G.N.E. Resources Ltd.
gas well spacing - D 87-5 36
Gulf Canada Corporation
compulsory pooling - D 86-14 33
well licence - D 86-13 32
pipeline applications - D 87-17 40

H

Hewitt Oil (Alberta) Ltd.
gas processing plant - D 86-3 30
High Level Energy Ltd.
well licence application - D 86-12 32

I

J, K, L

M

N, O, P

Norcen Energy Resources Limited
gas plant and oil battery - D 86-11 32
gas plant (Campbell-Namao) - D 87-9 37
Northwestern Utilities Limited
well licence - D 86-17 33
Novacorp Pipelines Ltd.
pipeline construction - D 87-1 35
Okotoks, Town of
pipeline emergency shutdown valve - D 86-15 33
PSR Gas Ventures Inc.
gas removal - D 86-19 34
PanCanadian Petroleum Limited
oil sands project - D 86-10 32
well licence application - D 87-11 38
Peace Pipe Line Ltd.
pipeline construction - D 87-15 39
Petro-Canada Inc.
gas cycling - D 87-7 37
Petrogas Processing Ltd.
memorandum of decision - hearing date and procedures (Northeast Calgary) 40

Q, R

S

Shell Canada Limited
gas plant application - D 87-8 37
well licence applications - D 87-16 40
Shell Canada Resources Limited
exploratory well (Jutland) - D 86-2 30
gas removal - D 86-7 31
Societe quebecoise d'initiatives petrolieres
gas removal application - D 86-1 30
Sulpetro Limited
gas processing plant - D 87-6 37

COMPANY INDEX

	pg
T	
TransAlta Utilities Corporation hydro development modifications - D 86-9	32
Tumit Petroleums Ltd. well licence application - D 87-2	36
U	
Union Pacific Resources Inc. gas well spacing - D 87-18	40
V-W	
Westburne Petroleum & Minerals Ltd. compulsory pooling - D 86-20	34
X-Z	

SUBJECT INDEX

	pg
AOF	
(see Absolute open flow)	
Abandonment	
applications, wells	62
coal mine plans	62
Absolute open flow, AOF	
computer file	58
test data	57
Accounting	
production accounting handbook - G-7	23
Acid gas, H_2S and CO_2	
(see also Sour gas)	
content of Alta. natural gases - 23	14
Acts	
Acts and regulations administered by ERCB	7,8
Allowable production	
(see Oil, Allocation)	14
Aluminum pressure piping code	42
Analyses	
(see Testing; Core analyses; Fluid analyses)	
Applications	
(see also Approvals)	
applications, transcripts, decisions	59
coal mining guide - G-2	22
pipeline licences and permits guide - G-13	24
reports on, see:	
Coal	
Electric power	
Ethane	
Gas processing plants	
Gas removal	
Industrial development permits	
Oil sands	
Pipelines	
Propane	
Proration	
Transmission lines	
Well licence	
Approval, for coal mining projects in Alberta	
how to apply - G-2	22
Approvals, ERCB	
(see also Applications; Orders)	
index, IBO - G-6	
of orders	23
projects - 5	9
Bitumen	
(see Oil sands)	
extraction process evaluation	43
Block	
application to review Board order - memo of hearing - (Dome)	35
Block approvals - 5	9
Blowout prevention equipment minimum requirements - G-11	24
Blowout (well)	
report - 46	20
Board orders, ERCB	
how to obtain	60
index of - G-6	23
Bottom-hole pressure, well	
(see also Subsurface pressure)	
surveys	58
Butane	
(see also Natural gas liquids)	
reserves - 18	14
CSA standards	
pipelines and piping	42
Carbon dioxide, CO_2	
(see Acid gas)	
Casing, well	
cementing requirements, minimum - G-9	23
design requirements, minimum - G-10	24
effect of tensile loading on collapse - G-15	24
surface casing, minimum and exemptions - G-8	23
Catalogue of publications, maps and services - G-1	22
computer services	71
general information	3
indices	77
maps	47
publications	7
services	55
Cementing requirements	
minimum - G-9	23
Charts	
calculating subsurface pressure	51
geologic correlation (table of formations)	19
reservoir performance, oil and gas pools - 10, 11	11
stratigraphic cross-section (table of formations)	49
Chemical plants	
(see Industrial development permits)	
Chemicals	
(see Industrial development permits)	
Clean Air Act and Regulations	8
Clean Water Act and Regulations	8
Coal	
(see also Mines and mining)	
Acts and regulations, mines and quarries	7,8
applications, reports on Fording Coal Limited (Cassils railway siding) - D 86-18	34
computer files	61
electric power generation statistics - 27, 28	15
exploratory drill holes	61
geology - 31	16
maps	50
mine, atlas - 45	20
mines, abandoned, plans of	62
reserves	
summaries - 31, 32	16,17
statistics	
annual, supply and disposition - 29	16
monthly, supply and disposition - 26	15
monthly, supply and disposition (multiple resources) - 3	9
reserves and resources - 31, 32	16,17

SUBJECT INDEX

	pg
Coal (cont'd)	
thermal power plant applications guide to content - G-28	26
Coal Conservation Act	7
Cold Lake	
oil sands applications - D 86-6	31
Compulsory pooling	
applications, reports on	
Gulf Canada - D 86-14	33
Westburne Petroleum - D 86-20	34
Computer services	
general information	71
tape files	74
Confidential information	
restrictions on	3
Conservation	
schemes, oil and gas - 15	12
Core Research Centre	69
Cores	
(see also Core analyses)	
examination of, or cuttings	69
Core analyses	
(see also Cores)	
computer file	56
oil sands data	56
records	56
special core studies index - G-14	24
Crude bitumen	
(see also Oil sands)	
atlas of reserves - 38	18
reserves - 18	14
Crude oil	
(see also Oil)	
pressure-depth & temp-depth - 22	14
Cuttings	
examination of	69
Data	
(see Statistics)	
Data, drilling	
(see Drilling, well)	
Data files	
(see Computer Services)	
Decisions, ERCB	
(see Applications; also types of resources)	
numbered - 42	19
Demand, economic	
(see Energy Requirements)	
Deposit maps	
coal	50
oil sands	48
Dispersants, oil spill	43
Disposition	
energy resource statistics	
annual	
coal - 29	16
electric power - 28	15
oil and gas - 17	13
monthly	
coal - 26	15
electric power - 27	15
multiple resources - 3	9
Drill cuttings samples	69
Drill holes, coal	61
Drill stem test results	
oil sands	57
oil and gas	57
Drilling, well	
(see also Well data and Well licences)	
activity data	
annual - 17	13
weekly - 2	9
coal exploration holes computer file	61
cutting samples	69
data file subscription	62
data on wells drilled in previous year - 14	12
oil sands data - 30A, 30B	16
blowout report - 46	20
spud information - 49	20
tour reports	69
wells	
drilled in previous year - 14	12
list of all - 37	18
Edmonton	
oil and gas pipeline maps	48
Electric energy	
(see Electric power)	
Electric power	
(see Hydroelectric)	
Act and regulations	7
Alberta Power - D 87-14	39
applications, reports on	
generating capacity - 32	17
generation	
(see applications, reports on)	
maps	51
statistics	
annual - 28	15
monthly - 27	15
monthly (multiple resources) - 3	9
Electricity	
(see Electric power)	
Energy requirements	
(see also Energy resources)	
crude oil, provincial - 24	14
energy and energy resources - 40, 86-A	19,29
report on - 86-A	29
Energy resources	
(see also Coal; Electric power; Energy requirements; Ethane; Gas; Helium; Oil; Oil sands; Propane; Sulphur; Uranium)	
Acts and regulations	7
Alberta, current and future requirements - 86-A	29
reserves	
crude oil, oil sands, gas, NGL, and sulphur - 18	14
hydrocarbons, coal and hydroelectric power - 32	17
statistics, monthly supply and disposition - 3	9
summary, annual - 32	17
Energy Resources Conservation Act	7
Energy Resources Conservation Board	
annual report of operations - 40	19
reports	29

SUBJECT INDEX

	pg
Energy Resources (cont'd)	
serial publications	9
public hearing process - G-16	25
public hearing procedure - G-29	27
unnumbered reports	21
Enhanced recovery	
(see also Injection)	
application by Chevron - D 87-10	38
project approvals summary - 5	9
project progress reports	67
project and schemes - 15	12
Environment protection	
Land Conservation and Reclamation Council (LCRC)	43
stack sampling code	43
Environmental impact assessment guidelines	42
Established reserves	
(see Reserves)	
Ethane	
reserves - 18	14
Exploration	
coal drill holes	61
Fields	
boundary	48
coal	50
oil and gas	
maps	48
orders (F Order)	60
Fish scale horizon maps	
geological	53
Flowlines	
design, testing and operation	42
Fluid analyses	
data on subscription - 6	10
oil sands data	57
reservoir fluid data	56
well data	56
Fluid-level recorders	
for calculating subsurface pressure - G-5	23
Formations, coal-bearing map	50
Formations, table of	49
Gas	
(see also Gas conservation schemes; Gas injection; Gas processing plants; Gas removal; Gas, use of; Gas well testing; Gas wells; Gasoline; Sour gas)	
Acts and regulations	7,8
analyses - 6	10
common purchaser - G-32	27
Energy Data System (GEDS)	
computer file	75
fields	
map	48
helium, content in - 18	14
industrial development permit applications, petrochemicals	
(see Industrial development permits)	
industry statistics - 17	13
maps	48
performance charts, reservoir - 11	11
CSA standards	42
maps	48
pipeline systems	42
polyethylene piping systems and pipes	42
plants	
(see Gas processing plants)	
pools	
reserves, computer file	68
production (performance) - 8, 11,	10,11
16, 16A	13
removal	
(see Gas removal)	
reserves	
annual estimates - 18, 35	14,17
reservoir performance - 11	11
statistics - 17	13
strike areas	
map	48
thermal power plant applications	
guide to content - G-28	26
units	
agreements	68
location and ownership - 7	10
use of	
in electric power generation - 27, 28	15
water production at gas wells	
how to determine - G-4	22
well data	
schedule of wells - 14	12
Gas conservation schemes - 15	12
Gas cycling	
applications, reports on	
Dome - D 87-7	37
Gas injection	
(see Injection)	
Gas processing plants	
(see also Sour gas; Gas)	
applications, reports on	
Hewitt Oil - D 86-3	30
Atlas Yellowknife - D 86-4	30
Norcen - D 86-11	32
Chevron - D 86-16	33
Chevron - memo of decision - Kaybob	34
PSR Gas Ventures - D 86-19	34
Sulpetro - D 87-6	37
Shell - D 87-8	37
Norcen - D 87-9	37
applications to ERCB - G-26	26
expansion - D 86-16	33
memo of decision - Kaybob (Chevron)	34
map	48
statistics - 13A, 13B	11
sulphur recovery - 86-AA	29
waste water	42
Gas removal	
applications, monthly bulletin - 48	20
applications, reports on	
review of certain permits - 86-B	29
Shell Canada Limited - D 86-7	31
Societe Quebecoise d'Initiatives Petrolieres - D 86-1	30
policies and procedures	

SUBJECT INDEX

	pg
Gas removal (cont'd)	
- D 87-A	35
Gas Resources Preservation Act	
Act	7
Gas well testing guide - G-3	22
Gas wells	
pressure survey data	58
schedule, oil and gas wells - 14	12
water production - G-4	22
Generation of electricity	
(see Electric power)	
Geological maps	
coal	50
fish scale horizon	53
paleozoic surface	53
table of formations (stratigraphic)	49
Geology	
coal - 31	16
Guides	
series description	3
series publications	22
Handbook	
production accounting - G-7	23
Hearings, ERCB	
applications, submissions, notices, transcripts	59
public, procedure - G-29	27
public, process - G-16	25
Helium	
and hydrogen survey - 25	15
reserves - 18	14
Historical impact	
assessment guidelines	43
Historical well production	
and injection	
computer file	66
Hydro and Electric Energy Act	7
Hydroelectric power	
(see also Electric power)	
Act and regulations	7
generating plants - 27, 28	15
modification - Cascade development - D 86-9	32
statistics - 27, 28	15
Hydrogen	
and helium survey - 25	15
Hydrogen sulphide, H_2S	
(see Sour gas)	
Indices	
Board orders - G-6	23
company	83
PVT and special core studies, index - G-14	24
publications by resource	77
Industrial development permits	
(petrochemicals)	
applications to ERCB - G-25	26
Information services	56
Information system, pipeline	
user's manual - G-13	24
Informational letters, ERCB	7
Initial production order (IP)	14
Injection	
approval of projects - 5	9
data	
computer file	66,67
historical - 8	10
monthly - 8	10
data on schemes and projects - 15	12
fluid injection data - 15	12
historical data file	66
pool data - 16, 16A	13
statistics, pool - 16, 16A	13
statistics, well - 8	10
computer file	66
Interim directives, ERCB	7
Intermediate casing	
cementing of	
minimum requirements - G-9	23
Interveners	
costs awards - G-31	27
Lands under contract	
computer file	75
Legislation	
(see Acts)	
Library	4
Licences	
(see Well licences)	
pipeline	
computer file	65
documents	64
well - 1	9
Lindbergh field	
application, report on PanCanadian Petroleum - D 86-10	32
Logs	
coal drill hole logs	61
oil sands evaluation wells	64
well logs	62
conventional wells	
Maps	
calculating subsurface pressure	51
coal	50
deposit maps	
coal	50
oil sands	48
electric power	
electric system, (Wabamun-Edmonton, Red Deer, Calgary)	51
gas processing plants	48
gas strike areas	48
general information	47
geological	53
coal	50
fish scale	53
high vapour pressure	48
how to order	47
index map	52
oil and gas	48
oil sands	
deposits	48
paleozoic	53
pipelines	
oil and gas	48
township plats	65
refineries	48
rural gas utility franchise	51
stratigraphic cross-section	
table of formations	49
structure maps	53
table of formations	49
Market demand (see Initial Production order)	14
(see also Proration, oil)	
data, pools - 24	14
Measurements	
automated system applications - G-34	27

SUBJECT INDEX

	pg
Measurements (cont'd)	
computer program, calculation of error in well and pool production - G-18	25
water production - G-4	22
Measuring instruments	
fluid-level devices for subsurface pressure - G-5	23
Microfiche	4
Mines and mining	
atlas - 45	20
abandoned mine plans	62
Acts and regulations, mines and quarries	7,8
application for approval (coal), guide - G-2	22
applications, reports on (see Coal)	
oil sands (see Oil sands)	
operating mines	62
NGL	
(see Natural gas liquids)	
Natural gas	
(see Gas)	
Natural gas liquids; propane, butanes, pentanes plus	
reserves - 18	14
statistics, supply and disposition, monthly - 3	9
Non-ERCB reports	42
Oil	
(see also Oil and gas conservation schemes; Oil and gas industry; Oil and gas maps; Oil and gas units)	
Acts and regulations	7,8
allocation data - 24	14
analyses - 6	10
industry statistics - 17	13
maps	48
market demand (see Initial Production Order)	
data, pools - 24	14
performance charts, reservoir - 10	11
pipelines	
design standards	42
maps	48
pools	
production - 16, 16A	13
reserves, computer file	68
production (performance) - 8, 10	10,11
16, 16A	13
reserves	
annual estimates - 18	14
reservoir performance - 10	11
statistics	
supply and disposition annual - 17	13
units	
agreements	68
location and ownership - 7	10
well data	
schedule of wells - 14	12
Oil and gas conservation schemes - 15	12
Oil and Gas Conservation Act	7
Oil and Gas Conservation Board	
numbered or lettered reports	29
report of operations - 12	11
Oil and gas industry	
Acts and regulations	7,8
negotiating surface rights	43
statistics on reserves	
crude oil, oil sands, gas, NGL, and sulphur - 18	14
hydrocarbons, coal, and hydroelectric energy - 32	17
supply and disposition, annual - 17	13
Oil and gas maps	
fields, pipelines, oil sands, plants, refineries	48
gas strike areas	48
Oil and gas units	
agreements	68
location and ownership - 7	10
Oil sands	
Act and regulations	7,8
active projects, Alberta - 44	19
annual statistics - 43	19
applications, reports on	
Esso Resources - D 86-6	31
PanCanadian - D 86-10	32
deposits	
atlas of reserves - 38	18
maps	48
evaluation wells, data - 30A, 30B	16
guidelines for applications - G-23	27
maps	
atlas of reserves - 38	18
oil sands deposits	48
plants	
statistics - 39	18
reserves - 18	14
Alberta - 18	14
atlas of reserves - 38	18
statistics	
plants - 39	18
reserves - 18	14
well data, evaluation wells - 30A, 30B	16
Oil spill, dispersants	43
On-line charges	55,71
Operations, ERCB	
annual report - 40	19
Orders, Board	
index - G-6	23
PSU approvals - 5	9
PVT	
analyses, conventional and special studies	58
index of special core studies - G-14	24
Paleozoic surface maps	53
Pentanes, pentanes plus	
(see also Natural gas liquids)	
reserves - 18	14
Performance	
(see also Production)	
gas reservoirs (pools) - 11	11
oil reservoirs (pools) - 10	11
Permits	
(see also Licences; Applications)	
industrial development	
(see Inddustrial development)	

SUBJECT INDEX

	pg
Permits (cont'd)	
permits)	
pipeline	64
removal of ethane (see Ethane)	
removal of gas (see Gas removal)	
removal of propane (see Propane)	
Petrochemicals, chemical plants	
industrial development	
permit applications (see Industrial development permits)	
Phase behaviour	
index - G-14	24
PVT studies	58
Pigeon Lake	
community study results	21
Pincher Creek area	
contamination - gas plant	21
Sage report	44
Pipe	
(see Pipes)	
Pipeline Act	7,8
Pipeline applications, reports on	
Alberta Energy Company - D 86-5	31
Town of Okotoks - D 86-15	33
Novacorp Pipelines - D 87-1	35
Shell - D 87-8	37
Federated Pipelines - D 87-13	38
Peace Pipeline - D 87-15	39
Gulf Canada - D 87-17	40
Pipeline systems	
(see Piping systems)	
Pipelines	
(see also Pipes; Piping systems)	
Act and regulations	7,8
applications	
guide to content - G-24	26
how to apply - G-13	24
permit/licence	64
CSA standards	60
computer file	65
information system, user's manual - G-13	24
information requirements - regulated	44
manual, how to apply for permit/licence - G-13	24
maps	48,49
permits, licences	64
pipeline info and details	64
receipts	
weekly report - 2	9
Pipeline construction	
safety	
careless construction near pipelines causes accidents - G-30	27
statistics - 2	9
surface rights	
guide for landowners and occupants - G-17-3	25
Pipes	
CSA standards	42
materials, requirements, testing methods	42
Piping systems	
codes, requirements	42
gas, CSA standards	42
oil, CSA standards	42
Plants, gas	
maps showing	48
statistics - 13A and 13B	11
Pollution	
(see Environment protection)	
Polyethylene pipes and piping systems	42
Pools	
gas reserves - 18, 35	14,17
computer file	68
oil allocation data - 24	14
oil reserves - 18	14
computer file	68
orders (G orders)	60
outline (G orders)	60
performance charts	
gas - 11	11
oil - 10	11
production - 16, 16A	13
allocation data, oil - 24	14
Postage charges	5
Power plants	
(see Electric power)	
Pressure	
subsurface	
calculation of, via fluid-level recorders - G-5	23
calibration of gauges	
data (pools) - 9	10
planning, conducting, and reporting tests - G-12	24
test data, surveys	58
Pressure maintenance	
(see Injection)	
Pricing	
of publications, maps and services	3
Processing plants, gas	
(see Gas processing plants)	
Production	
(see also Production spacing unit; Productive capacity; Performance)	
accounting handbook - G-7	23
casing	
minimum requirements - G-9	23
data, pool production - 16, 16A	13
data, well production and injection - 8	10
historical, computer file	66
oil, allocation, prorated to demand	
monthly data - 24	14
pools, gas - 11,	11
16, 16A	13
pools, oil - 10,	11
16, 16A	13
statistics	
coal	
annual - 29	16
monthly - 26	15
electric power (see Electric power)	
gas plants - 13A, 13B	11
oil and gas	
annual - 17	13
monthly - 3	9
pools, monthly production	

SUBJECT INDEX

	pg
Production (cont'd)	
and injection - 16, 16A	13
reservoir performance charts for oil and gas - 10, 11	11
well - 8	10
water, guide to determining at gas wells - G-4	22
wells - 8	10
computer file	66,67
Production spacing unit	
PSU approvals - 5	9
Production tests	
data	58
Productive capacity	
(see also Production)	
Productivity	
(see Performance)	
Programs, computer	74
Progress reports	
enhanced recovery schemes	67
Projects, conservation	
approvals - 5	9
data - 15	12
progress reports	67
Propane	
(see also Natural gas liquids)	
reserves - 18	14
Proved recoverable reserves	
(see Reserves)	
Public hearing process, ERCB - G-16	25
Publications	
general information	3
guides	22
ERCB unnumbered reports	21
non-ERCB reports	42
ERCB serial publications	9
ERCB reports	29
Quarries	
(see Mines)	
Quarries Act	8
Receipts, pipeline	
weekly report - 2	9
Reclamation, guidelines for land in Alberta	43
Records centre	55
Recoverable reserves	
(see Reserves)	
Recovery, enhanced	
(see Enhanced Recovery)	
Refineries	
maps	48
Regulations	
Acts and regulations administered by ERCB	7,8
Removal from province	
ethane, reports on applications	
(see Ethane)	
gas	
reports on applications	
(see Gas removal)	
propane	
reports on applications	
(see Propane)	
statistics - 17	13
Report of operations, ERCB - 40	19
Reporting	
production accounting handbook - G-7	23
Reports on applications	
(see specific resource)	
Reprints	4
Requirements	
(see also Acts)	
casing	
minimum casing design - G-10	24
minimum surface casing design - G-8	23
cementing - G-9	23
coal mining	
applications - G-2	22
pipeline permits and licences - G-13	24
production accounting	
reporting - G-7	23
Requirements, energy	
(see Energy requirements)	
Reserves and reserve estimates	
Alberta - 32	17
coal - 31	16
crude bitumen - 18	14
crude oil by pool - 18, 24	14
energy, energy resources	
annual estimates - 18	14
gas reserves by pool and area - 18, 35	14,17
computer file	68
graphical summary - 33	17
hearing submissions	68
natural gas liquids - 18	14
oil, crude and synthetic crude - 18	14
pools	
gas - 18, 35	14,17
gas reserves computer file	68
oil - 18, 24	14
oil reserves computer file	68
proved recoverable, oil and gas	
annual estimates - 18	14
reports, annual	
crude oil, oil sands, gas, NGL and sulphur - 18	14
gas - 35	17
hydrocarbons, coal and hydroelectric energy - 32	17
sulphur - 18	14
ultimate reserves of crude oil, marketable gas and crude bitumen	
annual estimates - 18	14
Reservoir fluid analyses data	58
Reservoir performance	
gas pools - 11	11
oil pools - 10	11
Resources, energy	
(see Energy resources)	
Rig	
inspection manual - IG-11	28
Safety, careless construction near pipelines can cause accidents - G-30	27
Schedule of wells drilled for oil and gas - 14	12
Schemes, conservation	
(see also Enhanced recovery)	
data - 15	12
progress reports	67
Secondary recovery	
(see Enhanced recovery)	
Serial publications	9

SUBJECT INDEX

	pg
Services	
application files	59
coal	61
computer files	74
cores	69
drill cuttings	69
general information	55
oil and gas	
analyses and tests	56
logs	62
oil sands well data	
tests/analyses data	56
well and drilling data	64
well or pool production	64
orders, approvals	59,60
pipeline	64
transcripts of hearings	59
Solvent flooding	
(see Injection)	
Sour gas, H_2S	
(see also Sulphur)	
applications, reports on	
Hewitt Oil - D 86-3	30
Shell - D 87-8	37
Gulf Canada - D 87-17	40
processing plants,	
applications to ERCB - G-26	26
Spud information data - 49	20
Stack sampling code	43
Standards	
CSA,	
aluminum pipe	42
epoxy coated	42
gas pipeline	42
oil pipeline	42
pipeline fittings, flanges and valves	42
polyethylene pipe	42
steel pipe	42
thermoplastic	42
Statistics	
coal	
annual - 29	16
monthly - 26	15
electric power industry	
annual - 28	15
monthly - 27	15
energy resources	
annual - 32	17
monthly - 3	9
gas plants - 13A, 13B	11
oil and gas - 17	13
oil sands	
approved projects - 44	19
oil sands plants - 39, 43	18,19
pools - 16, 16A	13
production	
and injection, pool - 16	13
and injection, well - 8, 16A	10 13
gas pools - 11, 16, 16A	11,13 13
oil pools - 10, 16, 16A	11,13 13
wells - 8	10
Steel line pipe	42
Steel valves - pipeline systems	42
Stratigraphic cross-section	
table of formations	49
Structure maps	
fish scale horizon	53
paleozoic surface	53
Subscriptions	
general information	4
how to order	4
Subsurface pressure	
(see also Bottom-hole pressure)	
data on pools - 9	10
how to calculate - G-5	23
charts	51
how to plan, conduct, and report tests - G-12	24
Sulphur	
(see also Sour gas)	
production (gas plants) - 13A, 13B	11
recovery - 86-AA	29
reserves - 18	14
supply and disposition - 17	13
Summaries, energy resources	
Alberta's energy resources annual - 32	17
energy resource industries statistics - 3	9
Supply	
(see also Electric power; Production; Reserves; Statistics)	
energy resources	
electric power, etc	
annual - 17	13
monthly - 3	9
Surface casing	
minimum requirements - G-8	23
Surface rights	
guide for landowners and occupants - G-17-3	25
negotiating	43
well-site selection - G-17-2	25
Table of formations	
stratigraphic	49
Tar sands	
(see Oil sands)	
Tensile loading,	
effect on casing collapse - G-15	24
Taxes	
sales	3
Testing	
absolute open flow (AOF) tests	57
back pressure tests	58
bottom-hole pressure surveys	
guide for calculation of - G-5	23
core analyses and special studies index - G-14	24
data from tests	56
drill stem tests (DST)	57
fluid analyses - 6	10
formation tests	56
gas well testing, manual - G-3	22
guides	
gas wells - G-3	22
subsurface pressure calculation via fluid-level recorders - G-5	23
subsurface pressure tests, planning, conducting, and reporting - G-12	24

SUBJECT INDEX

	pg
Testing (cont'd)	
water production at gas wells - G-4	22
phase behaviour - G-14	24
pressure surveys and tests	58
pressure-volume-temperature studies (PVT) and analyses - G-14	24
production tests	56
reservoir fluid analyses	58
subsurface pressure -	
calculation of - G-5	23
planning, conducting, and reporting - G-12	24
theory, gas wells - G-3	22
water production determination guide - G-4	22
well tests, data	56
wells, gas - G-3	22
Thermal power plants	
applications to ERCB	
guide to content - G-28	26
thermoplastic pressure piping code	42
Tour reports	69
Trace element emission study	
incinerator stacks - Alberta	44
Transcripts of hearings	59
Transmission lines	
applications, reports on	
Alberta Power - D 87-12	38
Alberta Power - D 87-13	38
guidelines for applications - G-22	26
maps	51
Turner Valley Unit Operations Act	8
Ultimate potential (see Reserves)	
Ultimate reserves (see Reserves)	
Unique well identifier - G-19	25
Units	
agreements	68
location and ownership - 7	10
Utility service areas	
electric power maps	51
Water	
analyses - 6	10
production - 8, 16, 16A	10,13
production determination guide, gas wells - G-4	22
Waterflooding	
data - 15	12
Water power (see Hydroelectric power)	
Well data	
analyses, tests	56
computer files	
code conversion	63
individual well gas analysis	57
pool average gas analysis	57
general well administration	63
drilling data, files - 2	9
injection data - 8	10
list of wells drilled in Alberta - 37	18
logging, logs	62
oil sands evaluation wells - 30A, 30B	16
production data - 8	10
records	66
schedule of wells - 14	12
Well licence	
application for - G-33	27
applications, reports on	
Shell Canada Limited - D 86-2	30
Diamond Shamrock - D 86-8	31
High Level Energy Ltd. - D 86-12	32
Gulf Canada - D 86-13	32
Northwestern Utilities - D 86-17	33
Tumit Petroleums Ltd. - D 87-2	36
Diamond Shamrock - D 87-3	36
Corexcal, Inc. - D 87-4	36
PanCanadian - D 87-11	38
Shell - D 87-16	40
Well logging	
log files	62
Well pressure	
(see also Testing; Well testing)	
calculation of subsurface (bottom-hole) fluid pressure - G-5	23
planning, conducting, and reporting subsurface tests - G-12	24
test results, surveys	58
Well spacing	
applications, reports on	
G.N.E. Resources - D 87-5	36
Union Pacific - D 87-18	40
Well testing	
(see also Testing)	
calculation of subsurface (bottom-hole) fluid pressure - G-5	23
drill stem tests (DST)	57
planning, conducting, and reporting subsurface tests - G-12	24
results, records on file	56
theory and practice of gas well testing - G-3	22
water production determination guide - G-4	22
Wells	
(see also Drilling; Well data; Well logging; Well pressure; Well testing)	
blowout report - 46	20
calculation of subsurface (bottom-hole) fluid pressure - G-5	23
gas well AOFP/pressure computer file	58
injection data - 8	10
historical, computer file	66
licences, listing - 1	9
list of wells drilled in Alberta - 37	18
computer file	64
oil sands	
well data - 30A, 30B	16
production data - 8	10
historical, computer file	66
schedule of wells - 14	12
site selection - G-17-2	25

SUBJECT INDEX

	pg	pg
Wells (cont'd)		
statistics - 17	13	
unique identifier - G-19	25	
Wireline tests		
data	58	
oil sands well data	57	